AMERICAN AUDIO

Encore 2000

Featuring:

TEMPO LOCK

Anti-Shock

seamless loop

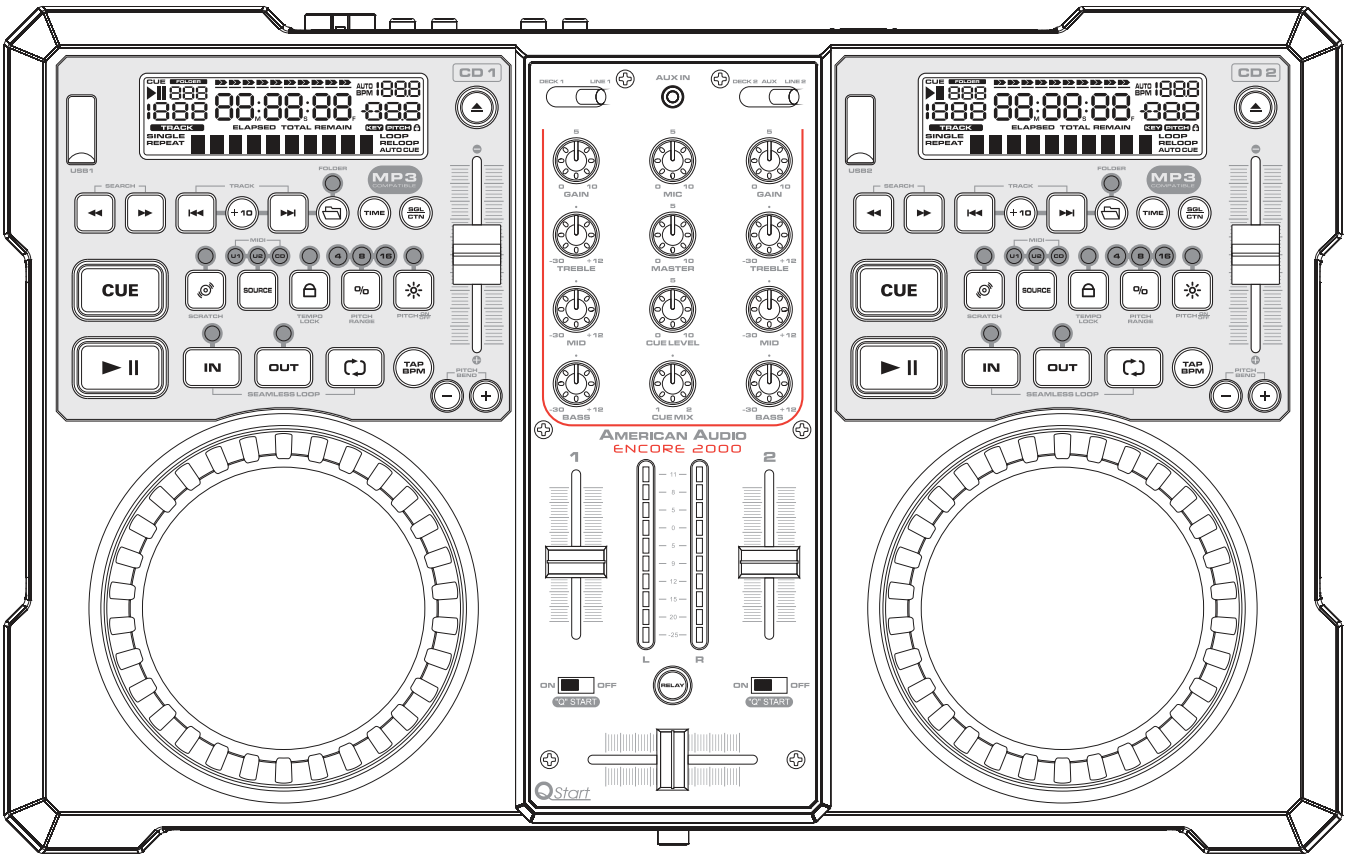
Q-Start

CD&CD-R COMPATIBLE

mp3

MIDI COMPLIANT

USB



User Guide
and Reference Manual

9/11

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FOR BEST CD-R DISC PLAYBACK RESULTS IN THIS CD PLAYER PLEASE FOLLOW THESE GUIDELINES:

1. High quality CD-R Audio discs (should conform to the standards of the Orange Book 2).
2. Use a high quality bit rate when recording discs. (At least 160kbps)
3. Record discs in the slowest speed possible. (i.e. 2x or 4x speed)

IMPORTANT SAFETY ITEMS FOR U.S.A. & CANADA MODEL ONLY

NOTE:
This CD player uses a semiconductor laser. It is recommended for use in a room at the following temperature: 41˚F - 95˚F / 5˚C - 35˚C

WARNING:
TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS CD PLAYER TO WATER OR MOISTURE

CAUTION:

1. Handle the power supply cord carefully. Do not damage or deform; it may cause electric shock or malfunction when used. Hold plug attachment when removing from wall outlet. Do not pull on the cord.
2. To avoid electric shock, do not open the top cover when the unit is plugged in. If problems occur with the unit, call your local American Audio® dealer.
3. Do not place metal objects or spill liquid inside the CD player. Electric shock or malfunction may occur.

CAUTION
Do not open -
Risk of electric shock

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER RACK. THERE ARE NO USER SERVICEABLE PARTS INSIDE REFER SERVICE TO YOUR AUTHORIZED American Audio DEALER.

The lightning flash with an arrow triangular symbol is intended to alert the user to the presence of non insulated “dangerous voltage” within the products enclosure, and may be of sufficient magnitude to constitute a risk of electric shock.

The exclamation point triangular symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the user manual accompanying the CD player.

CAUTION

TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE CAREFULLY INSERTED TO PREVENT BLADE EXPOSURE

CAUTION:

USE OF CONTROLS OR ADJUSTMENTS OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE

THE COMPACT DISC PLAYER SHOULD NOT BE ADJUSTED OR REPAIRED BY ANYONE EXCEPT PROPERLY QUALIFIED SERVICE PERSONNEL.

NOTE:

This unit may cause interference to radio and television reception.

Please carefully read and understand the instructions in this manual thoroughly before attempting to operate this unit. These instructions contain important safety information regarding the use and maintenance of this unit. Take special care to follow all warning symbols and labels both on the unit and printed in this manual. Also, Please keep this manual with the unit, for future reference.

CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE, OR OTHER TYPE OF ELECTRICAL OUTLET UNLESS THE WIDE BLADES CAN BE CAREFULLY INSERTED INTO A MATCHING WIDE SLOT.

ATTENTION: POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR, UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

ELECTRICAL SAFETY PRECAUTIONS

ELECTRICAL PRECAUTIONS

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK). THERE ARE NO USER SERVICEABLE PARTS INSIDE REFER SERVICE TO YOUR AUTHORIZED AMERICAN AUDIO® SERVICE TECHNICIAN.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

IMPORTANT SAFETY INSTRUCTIONS

READ INSTRUCTIONS — All the safety and operating instructions should be read before the product is operated.

RETAIN INSTRUCTIONS — The safety and operating instructions should be retained for future reference.

HEED WARNINGS — All warnings on the product and in the operating instructions should be adhered to.

FOLLOW INSTRUCTIONS — All operating and use instructions should be followed.

CLEANING — The product should be cleaned only with a polishing cloth or a soft dry cloth. Never clean with furniture wax, benzine, insecticides or other volatile liquids since they may corrode the cabinet.

ATTACHMENTS — Do not use attachments not recommended by the product manufacturer as they may cause hazards.

WATER AND MOISTURE — Do not use this product near water — for example, near a bathtub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.

ACCESSORIES — Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

CART — A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.

VENTILATION — Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

POWER SOURCES — This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company.

LOCATION – The appliance should be installed in a stable location.

NONUSE PERIODS – The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

GROUNDING OR POLARIZATION

- If this product is equipped with a polarized alternating current line plug (a plug having one blade wider than the other), it will fit into the outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
- If this product is equipped with a three-wire grounding type plug, a plug having a third (grounding) pin, it will only fit into a grounding type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding type plug.

POWER-CORD PROTECTION - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.

OUTDOOR ANTENNA GROUNDING — If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.

LIGHTNING — For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

POWER LINES — An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

OVERLOADING — Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

OBJECT AND LIQUID ENTRY - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

SERVICING — Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

DAMAGE REQUIRING SERVICE - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the product.
- If the product has been exposed to rain or water.
- If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- If the product has been dropped or damaged in any way.
- When the product exhibits a distinct change in performance — this indicates a need for service.

REPLACEMENT PARTS -- When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

SAFETY CHECK - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

WALL OR CEILING MOUNTING — The product should not be mounted to a wall or ceiling.

HEAT — The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

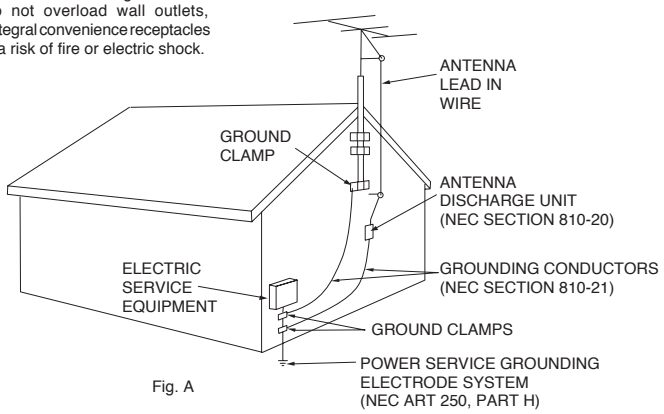


Fig. A

NEC — NATIONAL ELECTRICAL CODE

SAFETY INSTRUCTIONS

I. Read Instructions - All the safety and operating instructions should be read before you operate the system. The safety and operating instructions should be saved for future reference.

2. Heed Warnings - All warnings on the system and in the operating instructions should be adhered to.

3. Water and Moisture - The player should not be used near water - for example, near a bath tub, kitchen sink, laundry tub, in a wet basement or near a swimming pool, etc.

4. Ventilation - The system should be situated so that its location or position does not interfere with its proper ventilation. For exam ple, the system should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.

5. Heat - The system should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

6. Power Sources - The system should be connected to a power supply only of the type described in the operating instructions or as marked on the system.

7. Servicing - The user should not attempt to service the system beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel. The system should be serviced by qualified service personnel when:
   A. The power-supply cord or the plug has been damaged.
   B. Objects have fallen, or liquid has been spilled into the system.
   C. The system has been exposed to rain or water.
   D. The system does not appear to operate normally or exhibits a marked change in performance.

The serial and model number for this unit is located on the rear panel. Please write down the numbers here and retain for future reference.

Model No._____

Serial No._____

Purchase Notes:

Date of Purchase_____

Dealer Name_____

Dealer Address_____

_____

_____

Dealer Phone_____

UNPACKING

Every Encore 2000 System has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your system for any damage and be sure all equipment necessary to operate the system has arrived intact. In the event damage has been found or parts are missing, please contact our toll free customer support number for further instructions. Please do not return the system to your dealer without first contacting customer support.

INTRODUCTION

Introduction:

Congratulations and thank you for purchasing the American Audio® Encore 2000 System. This system is a representation of American Audio's continuing commitment to produce the best and highest quality audio products possible at an affordable price. Please read and understand this manual completely before attempting to operate your new system. This booklet contains important information concerning the proper and safe operation of your new system.

Customer Support:

American Audio® provides a toll free customer support line, to provide set up help and answer any question should you encounter problems during your initial set up or operation. You may also visit us on the web at www.AmericanAudio.us for any comments or suggestions. Service Hours are Monday through Friday 8:00 a.m. to 4:30 p.m. Pacific Standard Time.

Voice: (800) 322-6337
Fax: (323) 582-2941
E-mail: support@americanaudio.us

To purchase parts online visit http://parts.americandj.com

Caution! There are no user serviceable parts inside this audio system. Do not attempt any repairs yourself, without being instructed to do so by an authorized American Audio service technician. Doing so will void your manufactures warranty. In the unlikely event your audio system may require service, please contact American Audio® customer support.

Do not discard the packing carton in the trash. Please recycle when ever possible.

SET-UP PRECAUTIONS

Please be sure to make any connections before plugging the system in to an electrical outlet. All fader and volume controls should be set to zero or minimum position, before the system is switched on. If the system has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch on the system immediately. The arising condensation of water might damage your device. Leave the device switched off until it has reached room temperature.

Operating Determinations:

- When installing this system, please make sure that the device is not exposed or will not be exposed to extreme heat, moisture or dust!
- Do not operate the system in extremely hot (more than 30°/86°F) or extremely cold (less than 5°C/40°F) surroundings.
- Keep the unit out of direct sunlight and away from heaters.
- Operate the system only after becoming familiar with its' functions. Do not permit operation by persons not qualified for operating the unit. Most damages are the result of unprofessional operation.

MAIN FEATURES

- Plays Mp3's, CD's, and CD-R Discs
- Sleep Mode (**c**)
- 1/75th second frame search
- Pitch display
- Fader “Q” Start Control **(a)**
- Jog Wheel Pitch Bend +/-100%
- Aux Input
- High output to headphones
- Seamless Loop (uninterrupted loop playback)
- 3 Band EQ per channel
- Combo Mic Input Jack
- Extremely clean signal to noise ratio
- Auto cue
- Selectable Single or Continuous Play
- Real time cue (“Cue on the Fly”)
- RCA coaxial output
- 20 Sec. Digital Anti-Shock
- RELAY (Flip-Flop Playback) **(b)**
- Cue Mixing
- Repeat Mode
- 2 Line Level Inputs
- Independent Gains Per Channel
- Record Out
- Direct CD Line Outs
- Adjustable Pitch Percentages: +/-4%, +/-8%, +/-16%, and 100% ***(100% is applicable to CDs Only)***
- Instant Start within 10ms (sound is produced immediately when the PLAY button is pressed)

(a) FADER “Q” START CONTROL: Set up your Encore 2000 as described in the set-up section of this manual. After set up is completed load your players. By moving the mixer’s crossfader from left to right you can start and pause each players playback functions. For Example, when using the Encore 2000 player, if your mixer’s crossfader is all the way to the left (player one is playing, player two is in cue or pause mode), and you move the fader at least 20% to the right, player two (2) will begin to play. When the crossfader is to the right, and you move it 20% to the left, player one (1) will begin to play. You can create great effects similar to scratching with this feature. After storing cue points on each side of the CD player, different songs may quickly be recalled by moving the mixer crossfader back and forth. New cue points can be easily selected on the Encore 2000 player (see setting cue points page 20). “Q” Start control is easy to use and mastering this feature will help you create amazing effects with your music.

(b) RELAY (FLIP-FLOP): Connect your Encore 2000 player as described in the set-up section of this manual. This feature will start the next player once one (1) player has ended. For example, if player one (1) is playing a disc and it ends, player two (2) will instantly begin to play. You may set RELAY to play track to track or disc to disc. For more information on this feature, see RELAY on page 25.

(c) SLEEP MODE: The Encore 2000's laser and pick-up assembly will power down after the desird set time of inactivity (when in pause or cue mode) is reached. This will lengthen the life of your motor drive and laser. To initialize the player, just press the cue or play buttons. Please see SLEEP TIME on page 17 to set your desired time.

SET-UP

Checking the Contents

Be sure your Encore 2000 was shipped with the following:

1) Encore 2000 Professional CD player/mixer
2) Operating instructions (this booklet)
3) Warranty card
4) Power Cord
5) PC & Mac Asio Software

CAUTION:

- ***To avoid severe damage to the unit, be sure the power is off when making connections to the unit.***

System Power Up Sequence:

1. Turn ON the Encore 2000.
2. Next turn ON your speakers.

System Power Up Sequence with connected mixer, amp, active speakers, or external device:

1. Turn ON the amp, mixer, speakers, or any external device first.
2. Next turn ON the Encore 2000.

FOR BEST CD-R DISC PLAYBACK RESULTS IN THIS CD PLAYER PLEASE FOLLOW THESE GUIDELINES:

1. High quality CD-R Audio discs (should conform to the standards of the Orange Book 2).
2. Use a high quality bit rate when recording discs. (At least 160kbps)
3. Record discs in the slowest speed possible. (i.e. 2x or 4x speed)

CAUTION:

- The Encore 2000 will work normally when the unit is mounted with the front panel within 15 degrees of the vertical plane If the unit is tilted excessively, discs may not be loaded or unloaded properly. **(Figure 1)**

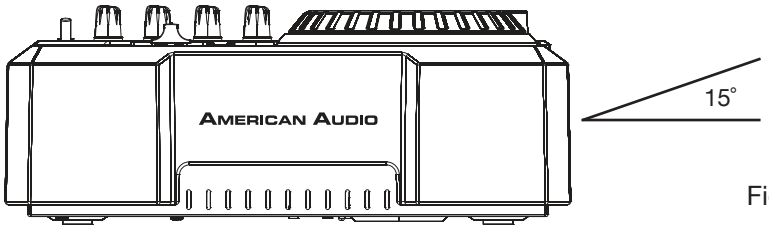


Figure 1

CAUTION:

- The LCD is designed to be clearly visible within the angles shown in **Figure 2**. Mount the unit so that the visual angle is within this range.

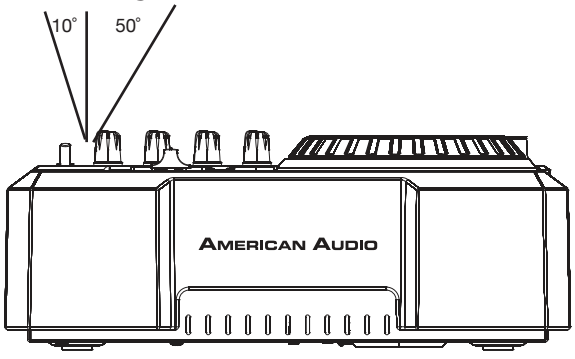


Figure 2

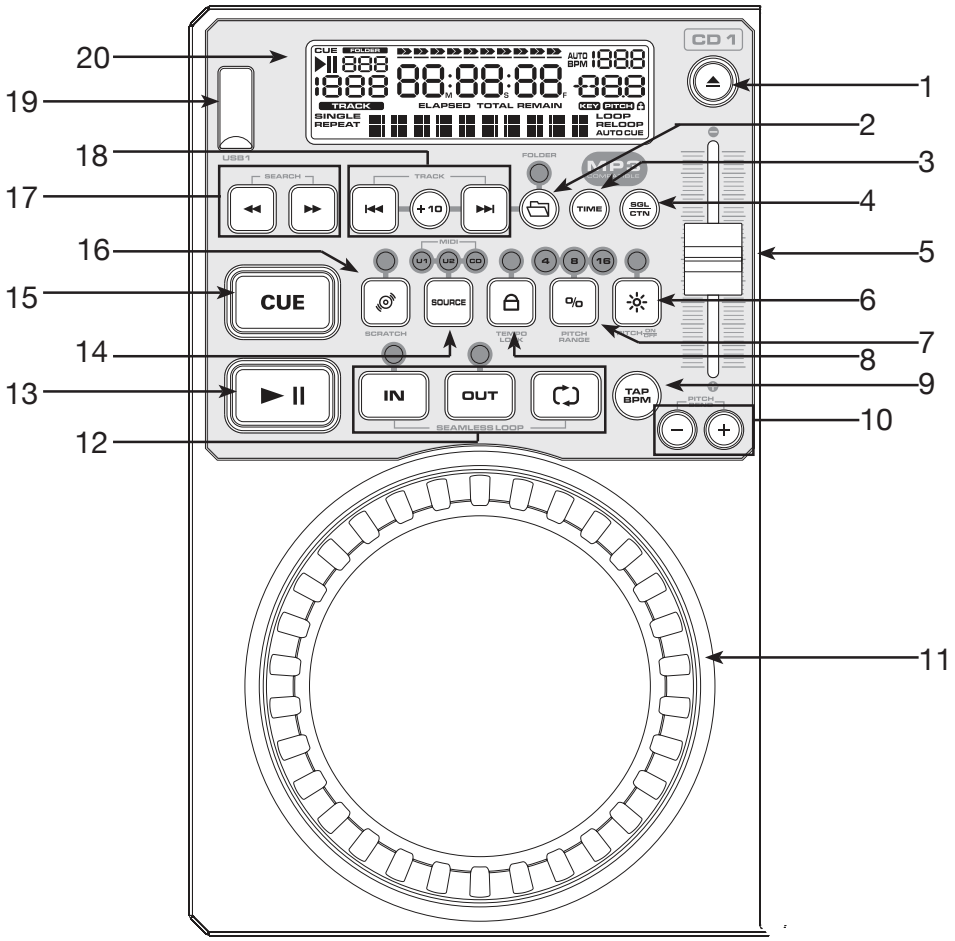


Figure 3

A. PLAYER CONTROLS (FIGURE 3)

1. EJECT BUTTON - Pressing this will open/close the CD tray. The eject function can only happen when the unit is in pause or cue mode, this is to prevent accidentally ejecting the disc when in play mode.

2. FOLDER BUTTON - This button is used to toggle between folders and tracks. Press this button to show the folder that is playing in the LCD. ***Pressing and holding this button for at least 3 secs. will activate REPEAT mode.***

3. TIME BUTTON - The TIME button will switch the time value described in the *TIME METER (50)* between ELAPSED PLAYING TIME, TRACK REMAINING TIME, and TOTAL REMAINING TIME (this is for CDs only).

4. SGL/CTN - This function allows you to choose between single track play or continuous track play (all tracks in order). This function also operates in RELAY mode, when RELAY is activated. ***Pressing and holding this button for at least 3 secs. will activate AUTO CUE.***

5. PITCH SLIDER - This slider is used to adjust the playback pitch percentage. The slider is a set adjustment and will remain set until the pitch slider is moved or the pitch function has been turned off. This adjustment can be made with or without a disc in the drive. The pitch adjustment will remain even if a disc has been removed and will reflect on any other disc loaded into the player. That is to say, if you set a +2% pitch on one disc, remove that disc and insert another, that disc too will have a +2% pitch. The amount of pitch being applied will be displayed in the *LCD (20).*

6. PITCH ON/OFF BUTTON - This button is used to switch the pitch function on and off. When the button LED is lit the *PITCH SLIDER (5)* is active. When the button LED is not lit, the *PITCH SLIDER (5)* is not active. The pitch percentage can be changed between 4%, 8%, 16%, 100%. 4% pitch percentage can be changed

between 4%, will allow the least amount of pitch manipulation and 100% will allow the most amount of pitch manipulation. ***Note: 100% Pitch Adjustment works with regular CDs only, not Mp3 CDs.***

NOTE: Pressing this button and turning the *JOG WHEEL (11)* allows you to view the File Name, Title, Artist, & Genre.

7. PITCH PERCENTAGE SELECTOR - Press this button to select pitch range percentages of 4%, 8%, 16%, & 100%. See adjusting the PITCH SLIDER'S RANGE on page 24. ***Note: 100% Pitch Adjustment works with regular CDs only, not Mp3 CDs.***

8. TEMPO LOCK FUNCTION - This button activates the TEMPO LOCK function. This function allows you to use the PITCH SLIDER to speed up or slow down playback speed without altering the tonal pitch of the track. When this function is not engaged the original tonal pitch of the track will be altered giving you the "chipmunk" effect when a track is played at a high rate of speed, or the "James Earl Jones" effect when a track is slowed to much. When this function is activated the LED above the button will glow.

9. TAP BUTTON -

A. Press this button to switch between manual BPM and Auto BPM. When in manual BPM mode, tap this button to the beat of the current track. Press and hold this button for at least 3 secs. to switch to Auto BPM. The BPM mode your are currently in is displayed in the LCD.

B. In MIDI mode, pressing the TAP button and *PITCH BEND +/- buttons (10)* will change channels

10. (+) PITCH BEND BUTTON - The **(+)** pitch bend function creates a momentary “BUMP” in the CD’s BPM’s (Beats per minute) while it is playing. This will allow you to match the beats between two playing CD’s or any other music source. Remember, this is a momentary function. When you remove your finger from this button, the BPM’s will automatically return to *PITCH SLIDERS (5)* selected pitch. Holding down this button will give a maximum of +100% pitch. ***Note: 100% Pitch Adjustment works with regular CDs only, not Mp3 CDs.***

(-) PITCH BEND BUTTON - The **(-)** pitch bend function creates a momentary “Slow Down” in the CD’s BPM’s (Beats per minute) while it is playing. This will allow you to match the beats between two playing CD’s or other playing music source. Remember, this is a momentary function. When you remove your finger from the pitch button, the BPM’s will automatically return to *PITCH SLIDERS (5)* pitch value. Holding down this button will give a maximum of -100% pitch. Use this function to slow to another playing music source. Be sure to notice that this function is a momentary pitch adjustment, for a more precise adjustment use the *PITCH SLIDER (5)* to match the BPM’s with another playing music source. ***Note: 100% Pitch Adjustment works with regular CDs only, not Mp3 CDs.***

11. JOG WHEEL (TOUCH SENSITIVE) - This wheel has three functions;

A. The jog wheel will act as a frame search control when the CD is in pause or cue mode, allowing you to set a cue point.

B. The wheel also works as a pitch bend during Playback. Turning the wheel clockwise will increase the pitch percentage up to 100%, and turning the wheel in the counter-clockwise direction will decrease the pitch percentage down to -100%. The pitch bend will be determined on how long you turn the jog wheel continuously.

C. The jog wheel is used to apply the scratch effect when Scratch Mode is active.

12. IN, OUT, & RELOOP BUTTONS -

OUT BUTTON - This button is used to set the ending point of a loop. A loop is started by pressing the *IN BUTTON,* and pressing the OUT BUTTON to set the loop ending point. The loop will continue to play until the *OUT BUTTON* is pressed once again.

IN BUTTON - “CUE ON THE FLY” - This function allows you to set a CUE POINT (see CUE POINT page 20) without music interruption (“on the fly”). This button also sets the starting point of a seamless loop (see SEAMLESS LOOP).

RELOOP BUTTON - If a SEAMLESS LOOP has been made (see setting a SEAMLESS LOOP on page 21), but the CD Player is not actively in SEAMLESS LOOP mode (a loop is not playing), pressing the *RELOOP*

BUTTON will instantly reactivate the SEAMLESS LOOP mode. To exit the loop, press the *OUT BUTTON (12).* LOOP will appear in the *LCD DISPLAY (20)* when the RELOOP function is available.

13. PLAY/PAUSE BUTTON - Each press of the *PLAY/PAUSE BUTTON* causes the operation to change from play to pause or from pause to play. While in play mode the blue play LED will glow, and while in pause mode the blue play LED will flash.

14. SOURCE SELECT BUTTON - This button lets you toggle between USB Port 1, USB Port 2, & CD player. This selector lets you choose which source will play on either side. The corresponding LED's located above the button will verify which source is active. The source selection can only be done in PAUSE mode. ***Press this button down for at least 3 seconds to enable MIDI on the corresponding deck. Press this button again for at least 3 seconds to disable MIDI.***

15. CUE - Pressing the *CUE* button during playback immediately pauses playback and returns the track to the last set cue point (see setting a CUE POINT, page 20). The red CUE LED will glow when the unit is in cue mode The LED will also flash every time a new CUE POINT is set. The *CUE* button can be held down to momentarily play the CD. When you release the *CUE* button it instantly returns to the CUE POINT.

16. SCRATCH BUTTON - This button is used to activate and deactivate the Scratch effect.

17. SEARCH BUTTONS -

◄◄ This search button allows you to quickly scan backwards through a track.

►► This search button allows you to quickly scan forwards through a track.

NOTE: Hold down either button and use the JOG WHEEL (11) to rewind or forward scan at faster speeds.

18. ADVANCE TRACK/FOLDER BUTTONS & +10 TRACK SKIP BUTTON -

►►| This button is used to select a track. Tapping this button will forward skip to the next track, holding down this button will rapidly forward skip through the tracks. When the FOLDER BUTTON (2) is active, pushing this button will advance to the next folder.

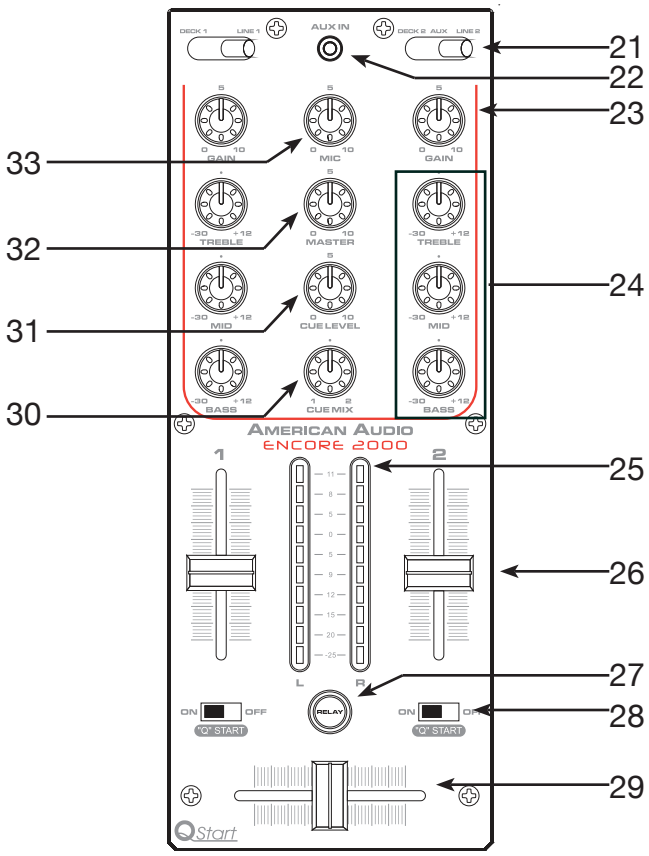
+10 TRACK SKIP - This button allows you to skip ahead by 10 tracks. Example: if you are at Track #1, pressing this button will skip you to Track #11, press the button again, it will skip to Track #21. If there are not that many tracks, it will go back to Track #1. Pressing this button and turning the *JOG WHEEL (11)* will allow you to rewind or forward skip through tracks at a faster speed. When the *FOLDER BUTTON (2)* is active, pushing this button will skip ahead 10 folders.

|◄◄ This button is used to select a track. Tapping this button will back skip on track, holding down this button will rapidly back skip through the tracks. When the *FOLDER BUTTON (2)* is active, pushing this button will return to the prior folder.

19. USB PORT - This is the USB port where you can insert a USB stick, USB SD Card reader, or compatiable external hard drive for playback.

20. LCD DISPLAY - This high quality LCD display indicates all the various functions, as they are occurring. This display is viewable at several comfortable angles (see page 8). The display ICONS will be explained on page 16.

Figure 4



B. MIXER CONTROLS (FIGURE 4)

21. SOURCE SELECTOR SWITCH - These switches are used to select the input source assigned to each channel. Each channel may only be assigned one input source at a time. ***NOTE: When using deck output mode, switching to deck will route the deck source to the mix.***

22. AUX INPUT - This Aux input is for the use of a Mp3 player. Input volume will be controlled by the channel two fader.

23. CHANNEL GAIN CONTROL - This adjustment is used to adjust an audio source signal input gain for a channel. Never use the gain control to adjust output volume. Setting the gain level properly will ensure a clean output signal. To properly set the gain level controls:

1. Be sure the *MASTER VOLUME CONTROL (32)* is set to level 4.
2. Set the *CHANNEL FADER (26)* to level 8.
3. Begin playback on an audio source connected to the channel you are adjusting.
4. Use the Gain Control *(23)* to adjust an average output volume of +4 dB.
5. Repeat this step for all channels.

24. EQUALIZER - All of the channels include a three-band signal EQ. These controls are used to increase or decrease the LOW's, MID's, and HI's of the output signal.

TREBLE CONTROL - This knob is used to adjust the treble levels of a channel allowing for a maximum treble gain of +12dB or maximum decrease of -30dB. Turning the knob in a counter-clockwise direction will decrease the amount of treble applied to a channel signal, turning the knob in a clockwise direction will increase the amount of treble applied to a channel signal.

MIDRANGE CONTROL - This knob is used to adjust the midrange levels of a channel allowing

for a maximum midrange gain of +12dB or maximum decrease of -30dB. Turning the knob in a counter-clockwise direction will decrease the amount of midrange applied to a channel signal, turning the knob in a clockwise direction will increase the amount of midrange applied to a channel signal.

BASS CONTROL - This knob is used to adjust the low frequency levels of a channel allowing for a maximum bass gain of +12dB or maximum signal decrease of -30dB. Turning the knob in a counter-clockwise direction will decrease the amount of bass applied to a channel signal, turning the knob in a clockwise direction will increase the amount of bass applied to a channel signal.

25. MASTER VOLUME LEVEL INDICATORS - The dual MASTER LEVEL LED indicators are used to detail the master output level. The meters will detail the output level of both the left and right channels.

26. CHANNEL FADER - These faders are used to control the output signal of any source assigned to its particular channel.

27. RELAY BUTTON - This button activates the RELAY function.

28. Q-START ON/OFF SWITCH - With this function you can use the crossfader to start and stop the CD play. The ON/OFF "Q" START switch activates the fader "Q" start feature. When the fader "Q" start feature is activated sliding the *CROSSFADER (29)* from left to right will play or cue the CD player connected.

Example: Be sure the Fader "Q" Start feature is activated on both channels. Slide the cross fader to the channel one position (full left) and begin playback on CD drive one. Slide the crossfader to the channel two position (far right). This will immediately trigger the play function on CD drive two and return CD drive one to cue mode. To return to normal fader operation turn the Fader "Q" Start ON/OFF SWITCH to the OFF position.

29. CROSSFADER - This fader is used to blend the output signals of channels one and two together. When the fader is in the full left position (channel 1), the output signal of channel one will be controlled by the master volume level. The same fundamentals will apply for channel two. Sliding the fader from one position to another will vary the output signals of channels one and two respectively. When the crossfader is set in the center position, the output signals of both the channels one and channels two will be even.

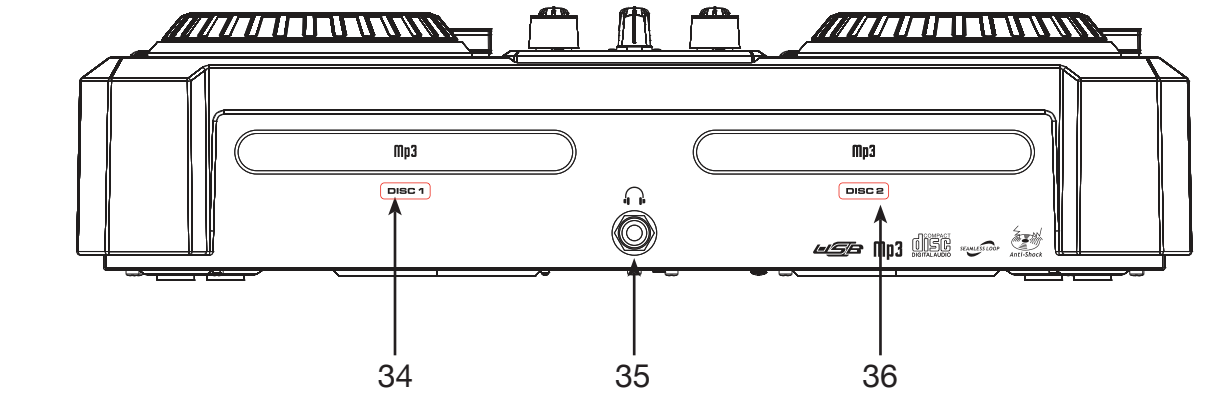
30. CUE MIX - This knob is used send a channels incoming signal to the headphones. Turn the knob counter-clockwise to monitor Channel 1, and clockwise to monitor Channel 2. The cue level is adjusted by the *CUE LEVEL VOLUME KNOB (31)*. Be sure the cue level is set to minimum before putting a pair of headphones on.

31. CUE LEVEL VOLUME KNOB - This knob is used to adjusts the headphone volume output level. Turn the knob in a clockwise direction to increase the headphone volume.

32. MASTER VOLUME CONTROL - This rotary knob is used to control the master output level (volume). To avoid distorted output try to maintain an average output signal level +4 dB. Be sure this volume control is always set to zero before turning the unit on.

33. MICROPHONE VOLUME - This knob is used to regulate the microphone output volume. Turning the knob in a clockwise direction will increase the volume level.

Figure 5



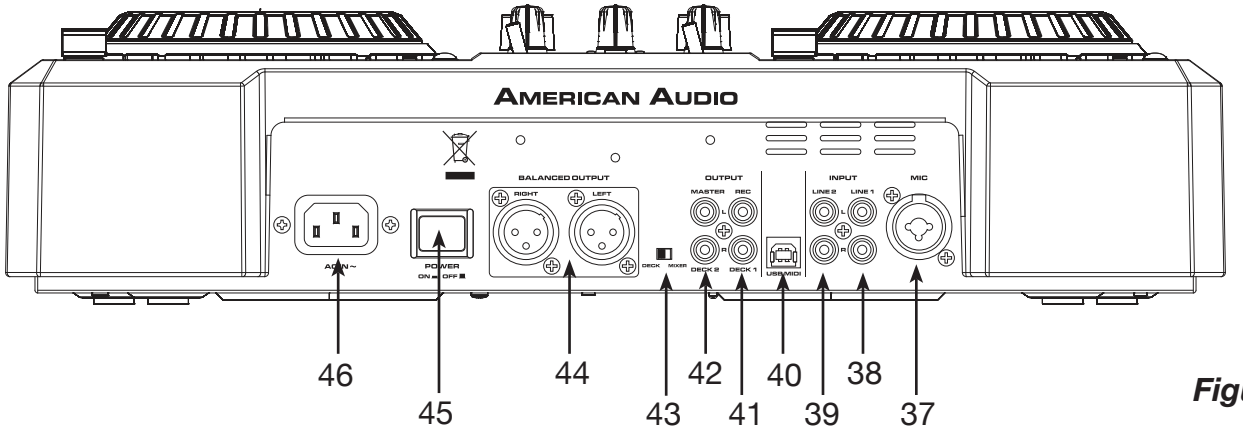


Figure 6

C. FRONT PANEL (FIGURE 5)

34. TRANSPORT TRAY 1 - This tray is used to load and unload a compact disc. The tray is opened and closed by pressing the Deck 1 OPEN/CLOSE BUTTON (1). Never attempt to force the transport tray open or closed when the power is turned off. If the CD tray is left open for more than a minute it will close automatically.

35. HEADPHONE JACK - This jack is used to connect your headphones to the mixer allowing you to monitor the cue source. Use headphones only rated at 8 ohms to 32 ohms. Most DJ headphones are rated at 16 ohm, these are highly recommended. Always be sure the *CUE LEVEL VOLUME (31)* is set to minimum before you put the headphones on.

36. TRANSPORT TRAY 2 - This tray is used to load and unload a compact disc. The tray is opened and closed by pressing the Deck 2 OPEN/CLOSE BUTTON (1). Never attempt to force the transport tray open or closed when the power is turned off. If the CD tray is left open for more than a minute it will close automatically.

D. REAR PANEL (FIGURE 6)

37. MICROPHONE - This combo jack will accept a standard 1/4 plug or XLR 3-pin balanced male plug. The volume output level for this microphone will be controlled by its own respective *MIC KNOB (29).* ***Note: We recommend that you use a 500-600ohm microphone for the best sound quality.***

38. LINE 1 INPUT JACKS - *TURNTABLES THAT HAVE A LINE LEVEL OUTPUT OR A PHONO PRE AMP CAN BE CONNECTED TO THE LINE INPUT, OTHERWISE DO NOT CONNECT TURNTABLES*

TO THESE JACKS! CD players, Tape Decks and other line level instruments may be connected to these jacks. The red colored RCA jack represents the right channel input and the white represents the left channel input. Input volume will be controlled by channel one fader. The channel *SOURCE SELECTOR SWITCH (21)* must be in the "Line 1" position, to monitor any source connected to these jacks.

39. LINE 2 INPUT JACKS - *TURNTABLES THAT HAVE A LINE LEVEL OUTPUT OR A PHONO PRE AMP CAN BE CONNECTED TO THE LINE INPUT, OTHERWISE DO NOT CONNECT TURNTABLES TO THESE JACKS!* CD players, Tape Decks and other line level instruments may be connected to these jacks. The red colored RCA jack represents the right channel input and the white represents the left channel input. Input volume will be controlled by channel two fader. The channel *SOURCE SELECTOR SWITCH (21)* must be in the "Line 2" position, to monitor any source connected to these jacks.

40. USB MIDI JACK - Connect one end of the included USB cable to the Encore 2000 USB MIDI port and the other end to your computer. This port is intended for MIDI assignments only. In the computer's operating system will automatically recognize the Encore 2000 without any need for special drivers. The Encore 2000 is also equipped with a 4 In/4 Out sound card. The 2 stereo inputs are independently switchable for Line or Phono.
Note: The USB cable limit is 3m.

41. REC OUT - This is a low current unbalanced output source designed for various tape and CD recorders. The Record Out (REC OUT) level is dictated by the *CHANNEL FADER LEVEL (26)*, it is not influenced by the *MASTER VOLUME CONTROL (32).*

42. RCA MASTER OUTPUTS - The RCA jacks send a low current unbalanced output signal. These jacks should only be used for shorter cable runs to signal processors or looping to another mixer. For cable runs greater than 15 feet use the *XLR BALANCED JACKS (42).*

43. OUTPUT MODE SWITCH -

MIXER: The output RCA plugs will be master and record output.

DECK: The output RCA plugs will send a line level signal for Deck 1 and Deck 2. This can be used for an external mixer or soundcard for recording or DVS software use.

44. BALANCED XLR MASTER OUTPUT JACKS - The Master Output includes a pair of XLR Balanced jacks as well as a pair of *RCA UNBALANCED JACKS (42)*. The 3-pin XLR jacks send a high current balanced output signal. These jacks should be used when you will be driving an amp or other audio equipment with a balanced input, or whenever you will be running a signal line greater than 15 feet. Always, use these jacks whenever possible.

45. POWER BUTTON - This button is used to turn your unit's power on and off.

46. POWER CONNECTOR - This connection is used to connect your main power. Be sure that your local power matches the unit's required power. ***NEVER REMOVE THE GROUND PRONG FROM THE POWER CABLE, DOING SO MAY RESULT IN IMPROPER OPERATION.***

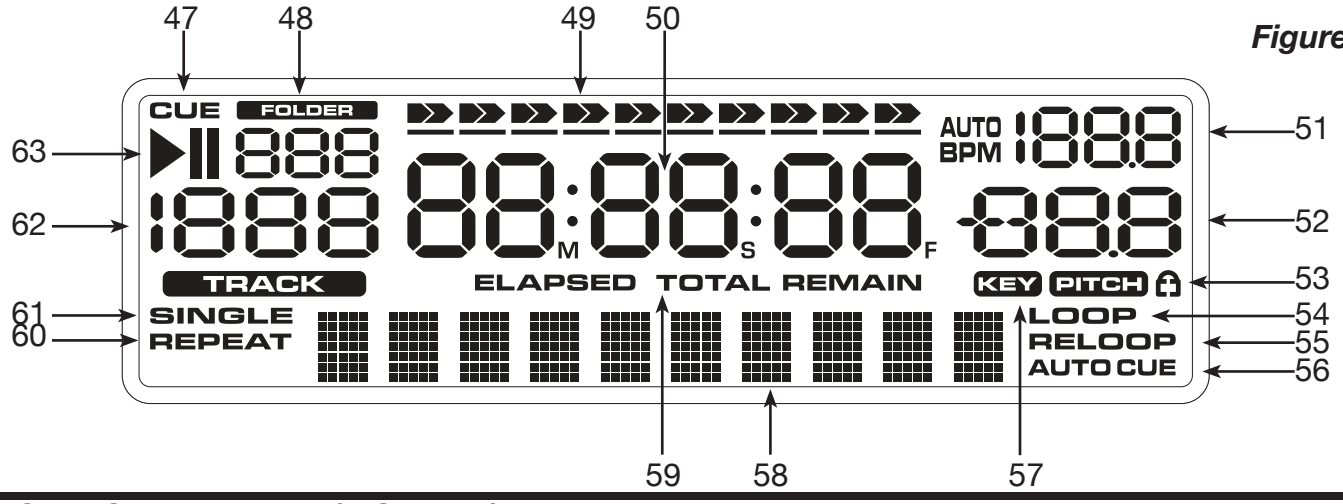


Figure 7

E. LCD DISPLAY PANEL (FIGURE 7)

47. CUE INDICATOR - This indicator will glow when the unit is in CUE or PAUSE mode and will flash every time a new CUE POINT is set.

48. FOLDER INDICATOR - This indicator details the current selected folder.

49. TIME BAR INDICATOR - This bar gives a visual approximation of a track's or disc's remaining time. This bar will begin to flash when a CD or song is ending. The line below the time bar indicator is the buffer indicator, each bar represents 2 seconds.

50. TIME DISPLAY - These indicators detail the Minutes, Seconds, and Frames. The meter will display either the elapsed or remaining time of a track.

51. AUTO BPM ICON & METER - The AUTO BPM icon is lit indicating that AUTO BPM meter is active. The meter will meaure the beats per minute (BPM).

52. PITCH METER - This meter will display the pitch percentage applied by the *PITCH SLIDER (5)* or *PITCH BEND BUTTONS (10)*.

53. LOCK INDICATOR - Appears and flashes when the lock mode is activated. See page 25 for LOCK MODE.

54. LOOP - This icon will appear when a loop point is set.

55. RELOOP INDICATOR - Appears and flashes when a LOOP is active.

56. AUTO CUE - This will indicate if the Auto Cue is On or Off. Press and hold the *SGL/CTN (4)* for 1 sec. to turn the Auto Cue function on and off.

57. KEY INDICATOR - This indicator will glow when the touch sensor part of the jog wheel has been touched.

58. CHARACTER DISPLAY - This will display the name of the track, folder, and album when a Mp3 disc is loaded.

59. ELAPSED/TOTAL REMAIN/REMAIN INDICATOR - This indicator is in direct reference to the *TIME DISPLAY (50)*. When the ELAPSED indicator is displayed in the *LCD (20)*, the time defined will refer to a single track's elapsed time. When "REMAIN" is indicated in the *LCD DISPLAY (20)* the *TIME DISPLAY (50)* in the *LCD* will define the current track's remaining time. When "TOTAL REMAIN" is indicated in the *LCD DISPLAY (20)* the *TIME DISPLAY (50)* in the *LCD* will define the total disc remaining time (for CD only). The time mode is changed by the tapping on the *TIME BUTTON (3)*.

60. REPEAT INDICATOR - This indicates that the repeat function is activated. When the repeat function is activated, the current track playing will repeat itself until the REPEAT function is deactivated.

61. SINGLE INDICATOR - This indicates that the CD drive is in single play mode, the track will play once and return to CUE mode. If the single indicator is not on the unit is in continuous mode. In continuous mode the drive will play all the remaining tracks on the disc.

62. TRACK INDICATOR - This indicator details the current track. The number displayed in the track indicator is a direct reference to the track in play, pause, or cue mode.

63. PLAY/PAUSE INDICATOR - Either the play or pause indicator will glow depending which mode you are in.

INTERNAL MENU

Hold *TIME BUTTON (3)* for 3 seconds to enter the internal menu. Use the *TRACK BUTTONS (18)* or turn the *JOG WHEEL (11)* to scroll through the different menus and press the *+10 BUTTON (18)* to enter the corresponding submenu. Press the *TRACK BUTTONS (18*) or turn the *JOG WHEEL (11)* to change the submenus and press TIME BUTTON to memorize your settings in any operating mode and exit the menu.

1. PLAYLIST - Normal / Title/ Artist / Album / Genre
The DATABASE BUILDER can generate "Playlist" for a USB device. You can adjust various criteria in order to filter tracks in this setting. You can use the *TRACK BUTTONS (18)* or *JOG WHEEL (11)* to scroll through the different settings; " Normal / Title/ Artist / Album / Genre" (USB or SD only).

2. Sensitivity – Touch Wheel Sensitivity Adjustment (Adjustment range is -20~+20.)
Increase or decrease the sensitivity of the Jog wheels touch sensor. The lower the sesitivity level the more pressure the JOG WHEEL needs.

3. Pitch Bend - Pitch range +/-1%~100%

4. CF Curve - Cross Fader Curve 0~50

5. MIDI Set Up - Mix=MIDI or Mixer
Mix Ch=1-16
Deck1Ch=1/3/5/7/9/11/13/15
Deck2Ch=2/4/6/8/10/12/14/16
TAP=Hold/SW.(Mode)

6. Sleep Time – No sleep, 5~120 min
Set the time the player takes to enter sleep mode. When in sleep mode, the player will read CD SLEEP on the LCD screen.

7. Line Setup – MODE= 1~3(Line mode)
- Dis=0.5~12.0 sec. (LINE NAME start/stop time adjustment)
- Spd=50~2000 msec. (LINE NAME movement speed time adjustment)

8. Bit rate – Display ON/OFF
Display the bit rate of MP3 files.

9. Version – CON: VerXX (Control version)
- DSP: VerXX (DSP version)
- MDSP: VerXX (Mixer DSP version)
- SER: VerXX (Servo version)

Displays the firmware version. The firmware is tested to ensure that the Encore 2000 is free of defects. If updates are released they will be posted on the American Audio website on the Encore 2000 product page.

A. Load Default – Press TRACK Knob to enter load defaults. (LCD displays “Load OK”.)
Will reset all settings to factory default except for Firmware version.

B. Exit & Save – Exit & Save setting to next power on (LCD displays “Saving”.)
This will save all changes if changes are not saved the unit will revert to last saved changes on power off.
Press the TRACK knob to fast exit & save in any operating mode.

NOTE:
SLEEP TIME: The CD player automatically shuts off the transport and laser after about 15 minutes when in pause or cue mode). This extends the life of your motor drive and laser. During sleep mode the display shows the word “SLEEP”. To wake up the player, just press the cue or play button, the display turns to normal and is ready to receive instructions. You can enter the Sleep Time menu to adjust sleep time, range is 5~120 minutes.

Calibrating the JOG WHEEL touch sensor:
Before you power on the Encore 2000 hold down the *PITCH PERCENTAGE BUTTON (7)* till the display reads A / D=2XX-255, now release the *PITCH PERCENTAGE BUTTON (7)* and the calibrated value will be saved. ***Note: When calibrating the Jog Wheel, please avoid touching the Jog Wheel.***

BASIC OPERATIONS

1. LOADING/EJECTING DISCS & OR USB DEVICE

The Encore 2000 can only play 3 inch and regular 5 inch CDs. When loading a CD into the player always hold the disc by it edge). Load the disc label side up and never touch the signal surface (the glossy side). To remove a disc from the player press the *OPEN/CLOSE BUTTON (1)*.

CAUTION:

- **NEVER** attempt to load any other objects besides 3" and 5" CDs.
- **NEVER** attempt to load more than one disc at a time. Doing so may result in severe damage to your unit.
- **DO NOT** force the transport tray open or close when the power is off, this may damage the drive system.

When loading a USB stick, USB card reader, or external hard drive make sure you are correctly lined up with the USB port and connect to the USB port. To disconnect a USB drive, stop playback and disconnect the USB connection. ***VERY IMPORTANT USB INFORMATION:***

- ***The ENCORE 2000 will only read MP3 files or WAV files.***
- ***If you are using a SD Card via USB SD Card reader, you must remove the USB SD Card reader first to change SD Card's. Please do not remove the SD Card from the USB SD Card reader while the USB card reader is still connected to the unit.***

NOTE: For higher quality MP3 files (more than 128 kbps) American Audio recommends "High Speed" SD Cards. Using high speed cards will ensure the best performance with your American Audio Player.

- ***Only supports FAT/FAT32 formatted devices.***

NOTE: If the ENCORE 2000 cannot read your USB device, please make sure that it FAT formatted.

CAUTION:

- **NEVER** remove a USB device while in PLAY mode.

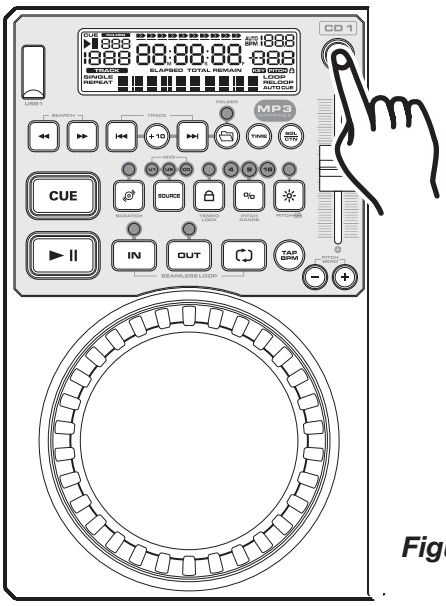


Figure 8

Figure 8: *Press the Eject button to load and remove a disc.* ***Remeber:*** *When loading a disc always hold the disc by it edges and load the disc label side up.*

2. SELECTING TRACKS

Select a desired track by using the *TRACK BUTTONS (18).* Tapping the *TRACK BUTTONS (18)* once will select either the next higher or lower track. You can hold down the *TRACK BUTTONS (18)* to change tracks continuously at a faster speed. If you are using the *TRACK BUTTONS (18)* to select a new track during playback (a track is already in play mode) the new track you selected will immediately begin playback as soon as the search operation is completed.

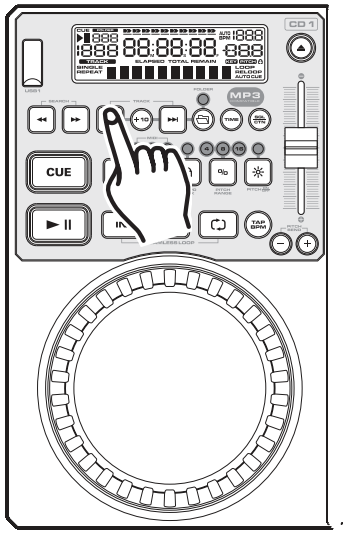


Figure 9: *Tapping the reverse track button will jump back to the previous track.*

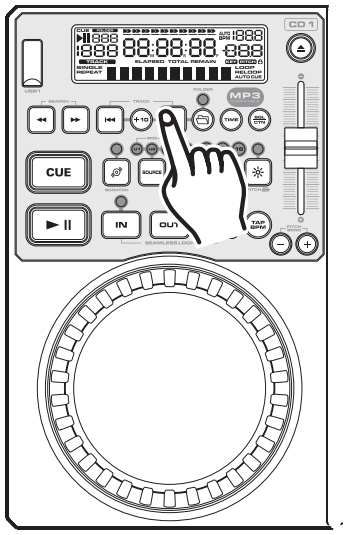


Figure 10: *Tapping the forward track button will skip forward to the next track.*

3. STARTING PLAYBACK - *Figure 11*

Load an audio CD as describe on page 18 (*LOADING/EJECTING DISCS*). Pressing the *PLAY/PAUSE BUTTON (13)* with an audio CD loaded will immediately start playback. The *PLAY (63)* indicator will glow as soon as playback begins. The point at which playback starts (cue point) will automatically be stored in the memory as the cue point. The unit will return to this cue point (the point at which playback started) when the *CUE BUTTON (15)* is pressed.

4. PAUSING - *Figure 11*

This function pauses playback at the exact same point the *PLAY/PAUSE BUTTON (13)* was pressed. Pressing the *PLAY/PAUSE BUTTON (13)* will switch between play and pause modes. When the unit is in pause mode the *PAUSE INDICATOR (63)* will show in the *LCD DISPLAY (20)*. The blue *PLAY/PAUSE BUTTON* LED will also begin to flash repeatedly.

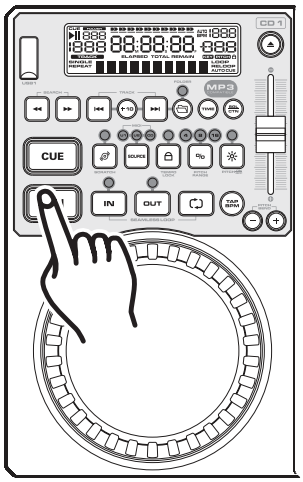


Figure 11

5. AUTO CUE

This function will automatically set a cue point to the first audio point when a CD is loaded. The first set cue point will always be the beginning of track 1. If a new track is selected before the *PLAY BUTTON (13)* is pressed, a new CUE POINT will be set to reflect the new starting point.

6. STOPPING PLAYBACK - *Figures 11 & 12*

Stopping playback will not stop the drive mechanism, but merely pause or cue the track, this functions allows the unit to begin play instantly. The drive mechanism will only stop if a disc is ejected or the unit has gone in to sleep mode. There are two ways to stop (pause) playback:

1) Press the *PLAY/PAUSE BUTTON (13)* during playback. This will pause play-back at the exact same point the *PLAY/PAUSE BUTTON (13)* was pressed.
2) Press the *CUE BUTTON (15)* during playback. This will pause playback and return the track to the last set cue point.

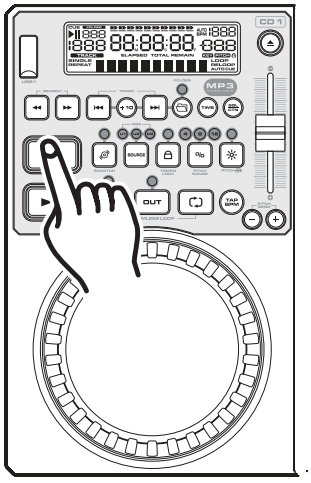


Figure 12

7. FRAME SEARCH

This feature allows you to scroll through a track frame by frame, allowing you to find and set a starting cue or loop point. To use the scroll function you must first be in Pause Mode (see section 4) or Cue Mode (see section 8). Once you are in Pause or Cue mode, turn the *JOG WHEEL (11)* to scroll through the track (Figure 13). Turning the wheel in a clockwise direction will advance the frame search and turning the wheel in a counter-clockwise direction rewinds the frame search. When you use the *JOG WHEEL (11)* the monitor (headphone level) function allows you to hear what you are scrolling through. Once you reach your desired starting point you can set a cue (starting) point by pressing the *PLAY/PAUSE BUTTON (13)* as in Figure 11. Pressing the *CUE BUTTON (15)* as in Figure 12 will now return you to the point you just set.

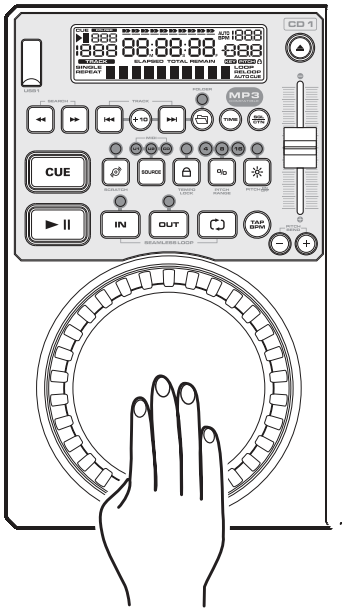
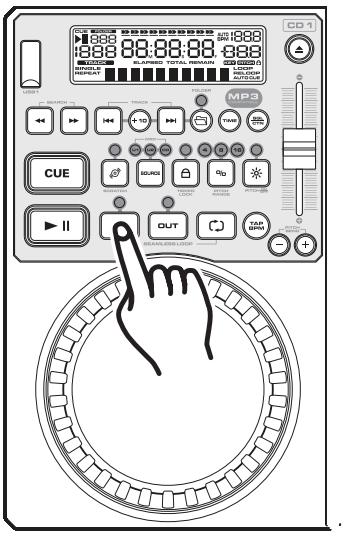


Figure 13

8. SETTING A CUE POINT

A cue point is the exact point playback will begin when the *PLAY/PAUSE button (13)* is pressed. You may set your cue points anywhere on a disc or in a track. There are three (3) ways to set and create a CUE point:



1) You may press the *IN BUTTON (12)* on the fly (while the disc is playing). This will set a CUE Point without music interruption. Pressing the *CUE BUTTON (15)* will now return you to the same point that you pressed the *IN BUTTON (12).*

Figure 14

2) You may also use the *JOG WHEEL (11)* to set a cue point. While a disc is in PAUSE or CUE mode, use the *JOG WHEEL (11)* to scroll through a track and find your desired starting point. Once you have found your desired CUE point press the *PLAY BUTTON (13)* to set your cue point. Pressing the *CUE BUTTON (15)* will now return you to this exact point.

NOTE: Scratch mode must be inactive for JOG WHEEL search mode to work. It is best to use the rim of the JOG WHEEL.

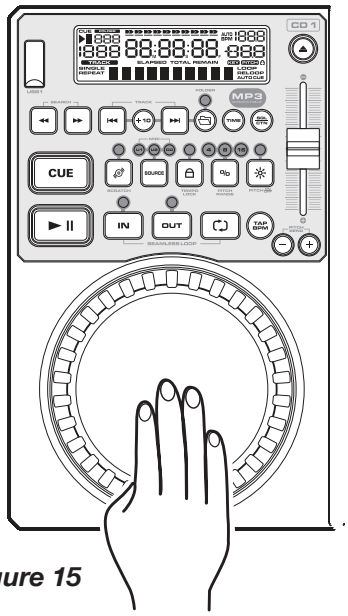
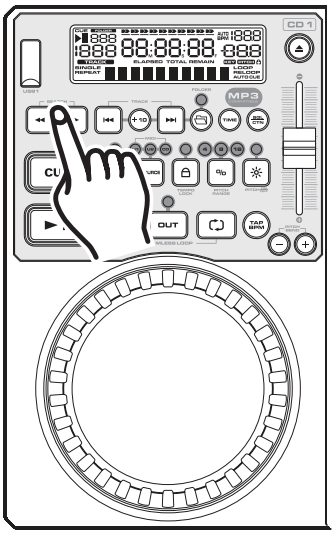


Figure 15



3) You may also use the *SEARCH BUTTONS (17)* to set a cue point. While a disc is in PAUSE or CUE mode, use the *SEARCH BUTTONS (17)* to scan through a track to find your desired starting point. Once you have found your desired position press the *PLAY BUTTON (13)* to set your cue point. Pressing the *CUE BUTTON (15)* will now return you to this exact point.

Figure 16

9. CREATING AND PLAYING A SEAMLESS LOOP

A seamless loop is a sound loop that plays continuously without sound interruption. You can use this loop to create dramatic effect in your mixing. This loop has no time limit and you could actually loop the entire length of disc. You create a seamless loop between two continuous points of a disc.

1) Press *PLAY/PAUSE BUTTON (13)* to activate playback mode.

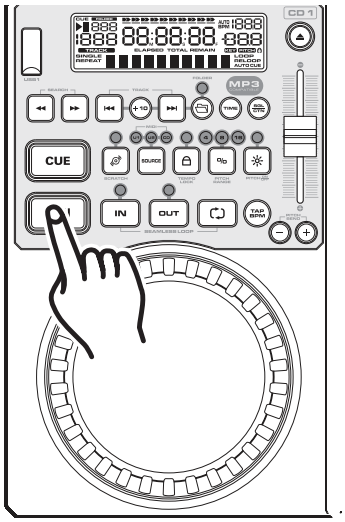
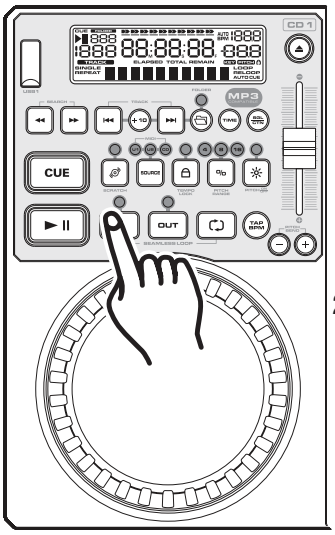


Figure 17



2) Press the *IN BUTTON (12).* This will set the starting point of the SEAMLESS LOOP. The *IN BUTTON (12)* LED will light.

Figure 18

3) Press the *OUT BUTTON (12)* to set the ending point for your LOOP (Figure 19). The *IN BUTTON (12)* and *OUT BUTTON (12)* LEDs will immediately begin to flash rapidly, indicating the SEAMLESS LOOP mode has been activated.

LCD LOOP INDICATORS - During a loop, the *RELOOP INDICATOR (53)* will flash in the *LCD DISPLAY (20)* indicating a loop is active.

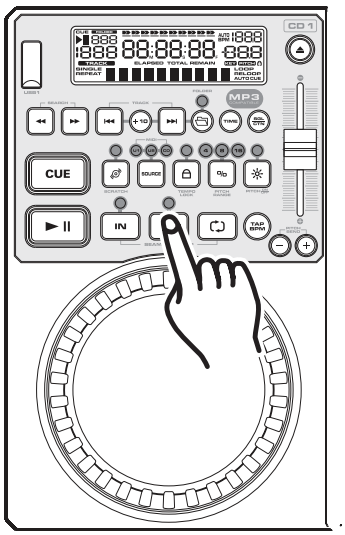


Figure 19

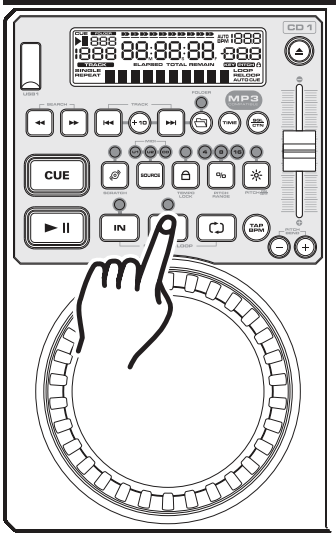


Figure 20

EXITING A LOOP - To exit a SEAMLESS LOOP, press the *OUT BUTTON (12).* Music playback will resume normal play. The *IN BUTTON (12)* and *OUT BUTTON (12)* LEDs will remain lit to remind you that a loop is in memory.

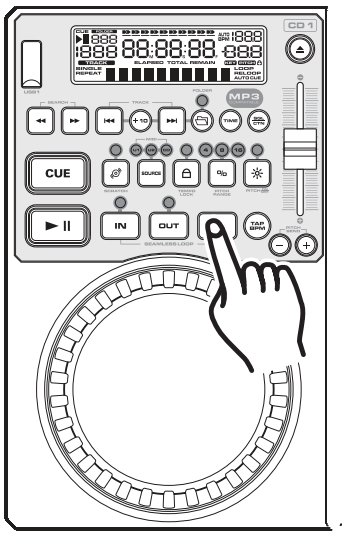


Figure 21

REPLAY LOOP - The RELOOP function allows you to return to your stored loop at any time. The *IN BUTTON (12)* and *OUT BUTTON (12)* LEDs will indicate a loop is stored in memory, and may be played at any time. To replay the loop, press the *RELOOP BUTTON (12).* The *IN BUTTON (12)* and *OUT BUTTON (12)* LEDs will again begin to flash indicating SEAMLESS LOOP mode has been activated and your loop will immediately begin to play.

LOOP DIVIDE & MULTIPLY - When a loop is active you can use the *SEARCH BUTTONS (17)* to alter the length of a loop. The loop lengths are 1/4, 1/2, 3/4, 1/1, 2/1, and 4/1 of the originall loop length.

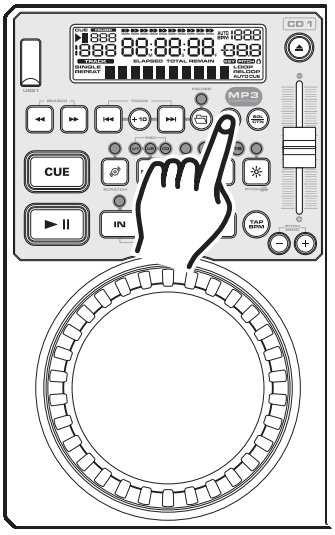


Figure 22

10. CHANGING THE TIME DISPLAY (50)/TIME BAR (49):

DURING NORMAL PLAYBACK, pressing the *TIME BUTTON (3),* will change the time display information in the *LCD (20)*. The following is a break down of the time settings and their definitions:

1) REMAIN - This details the time in the *LCD (20)* as the current tracks' remaining running time.
2) ELAPSED - This details the time in the *LCD (20)* as the current tracks' elapsed running time.
3) TOTAL REMAIN - This details the time in the *LCD (20)* as the current CD total remaining running time (this is for CDs only).

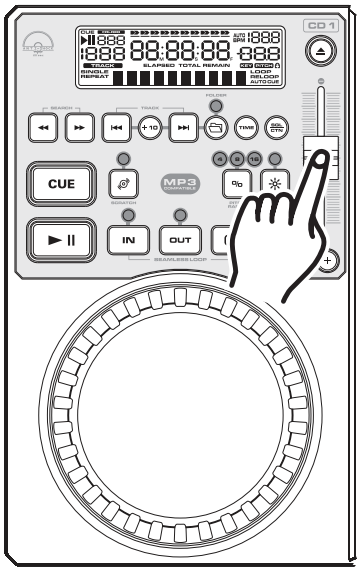
TIME BAR INDICATOR - This details the time defined in the *TIME METER (50)* as a visual bar icon. As with the *TIME METER (50)* this bar is also dependent on the selected time function *[REMAIN, ELAPSED, OR TOTAL REMAIN (CD ONLY)].* This bar will begin to flash when a track is ending regardless of which time functon you are in. Use the flashing bar as a visual reminder that a track is ending.

MEMORY STATUS INDICATOR - The memory status indicator is the thin line bar that is located underneath the *TIME BAR INDICATOR (49)*. The memory status is represented by the line bar being filled or emptied. Each bar in the line bar represents 2 second of play memory buffer.

PITCH ADJUSTMENTS

PITCH ADJUSTMENTS:

You can activate the *PITCH SLIDER (5)* by pressing the *PITCH ON/OFF BUTTON (6)*. When the button LED is lit, the *PITCH SLIDER (5)* is active and the pitch can be adjusted. When the button LED is not lit *PITCH SLIDER (5)* is not active. The different pitch adjustments allow a track's or a loop's playback speed to be manipulated. This speed manipulation is commonly used to beat match between two or more music sources such as a turntable or another CD player. The playback speed may be increased or decreased by a factor of +/-100. The next section details the different pitch manipulation schemes. ***Note: 100% Pitch Adjustment works with CDs only, not Mp3 CDs.***



1. PITCH SLIDER (5):

This function will increase or decrease the tracks playback speed or "PITCH." The maximum pitch percentage manipulation in this function is +/-100%. The *PITCH SLIDER (5)* is used to decrease or increase the playback pitch. If the slider is moved up (towards the top of the unit) the pitch will decrease, if the slider is moved down (towards the bottom of the unit) the pitch will increase. The *PITCH SLIDER (5)* adjustment can be changed to range from +/-4%, +/-8%, or +/-16% (See changing "PITCH SLIDER PERCENTAGE RANGE" on the next page). This pitch adjustments will effect normal playback and loops only when the *PITCH ON/OFF BUTTON (6)* is turned on. ***Note: 100% Pitch Adjustment works with CDs only, not Mp3 CDs.***

Figure 23

Activating the PITCH SLIDER (5): To activate the *PITCH SLIDER (5)* you must turn on the pitch adjustment function. Press the *ON/OFF BUTTON (6)* located at the top right of the unit. The *ON/OFF BUTTON (6)* LED will glow when the function is activated. If the pitch function is not activated the *PITCH SLIDER (5)* will not function.

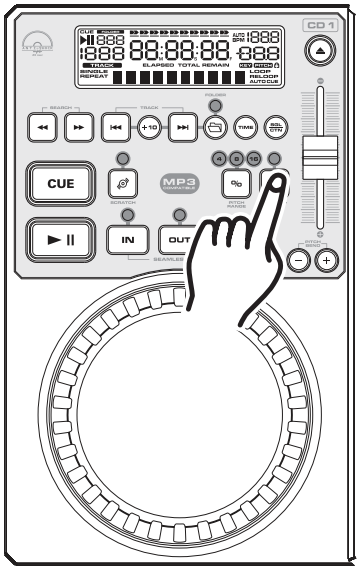
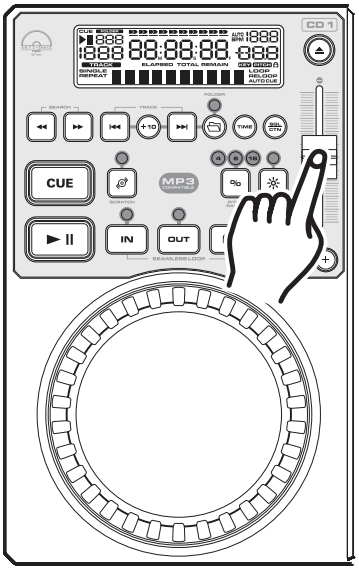


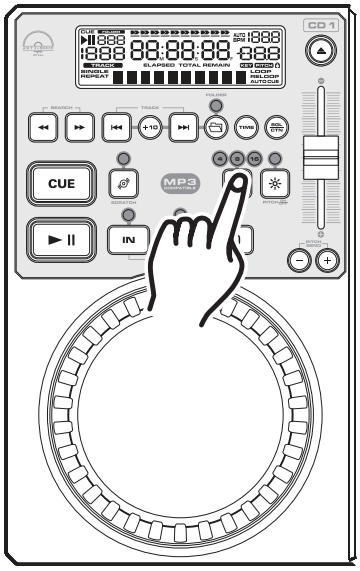
Figure 24



Using the PITCH SLIDER (5): Be sure the pitch function has been activated as described above. To use the *PITCH SLIDER (5)* slide the slider up and down. Down will increase the pitch and up will decrease the pitch.

Figure 25

PITCH ADJUSTMENTS



Adjusting the PITCH SLIDER'S RANGE: You may change the *PITCH SLIDER'S (5)* operating range at any time. To change the operating range be sure the pitch function is turned on, see figure 24. The pitch percentage can be changed between +/-4%, +/-8%, +/-16%, & 100%. 4% will allow the least amount of pitch manipulation and 100% will allow the most amount of pitch manipulation. To adjust the different ranges, press the *PITCH ON/OFF BUTTON (6)* and tap on the *PITCH RANGE BUTTON (7)* until your desired value is reached, see figure 26. ***Note: 100% Pitch Adjustment works with CDs only, not Mp3 CDs.***

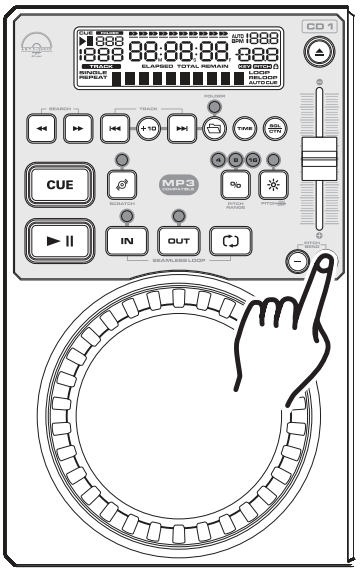
Figure 26

2. PITCH BENDING:

Unlike the *PITCH SLIDER (5)* adjustment this function will momentarily increase or decrease a tracks speed during playback. There are two ways to operate this function with the (-) & (+) *PITCH BEND BUTTONS (10)* or with the *JOG WHEEL (11).* The maximum pitch bend percentage allowed is +/- 100%. The pitch bend function will work in conjunction with the *PITCH SLIDER (5)* pitch setting. For example, if the *PITCH SLIDER (5)* is set to a 2% pitch gain the pitch bending process will begin at 2% and will continue to the maximum of +/- 100%.

PITCH BEND BUTTONS (10):

The *(+) PITCH BEND BUTTON (10)* will increase track playback speed and the *(-) PITCH BEND BUTTON (10)* will decrease track playback speed. The extent to which the speed changes is proportionate to the amount of time the button is pressed. For example, if the *(+) PITCH BEND BUTTON (10)* is held down continuously as in figure 28, the disc speed will increases and will continue to increase until it reaches a maximum of 16% speed gain. When you release the *(+) PITCH BEND BUTTON (10)* the disc speed will automatically return to it's previous set speed. ***Note: 100% Pitch Adjustment works with CDs only, not Mp3 CDs.***

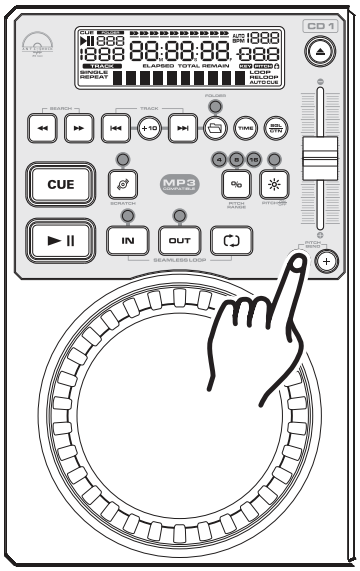


Holding down or tapping on the *(+) PITCH BEND BUTTON (10)* will provide a speed bump in the playback pitch.

Figure 28

Holding down or tapping on the *(-) PITCH BEND BUTTON (10)* will provide a slow down in the playback pitch.

Figure 27



PITCH ADJUSTMENTS

3. JOG WHEEL (11):

The *JOG WHEEL* will temporarily bend the pitch if a track is in playback mode. Rotating the wheel in a clockwise direction will increase your track pitch and rotating the wheel in a counter-clockwise direction will slow your track pitch. The speed you rotate the *JOG WHEEL* will determine pitch bend percentage (%). For example, if the *JOG WHEEL* is continuously turned in a counter-clockwise direction the playback speed will steadily decrease and will continue to decrease until playback reaches a maximum of -100% and playback stops entirely. When you stop turning the *JOG WHEEL* the disc speed will automatically return to it's previous set speed.

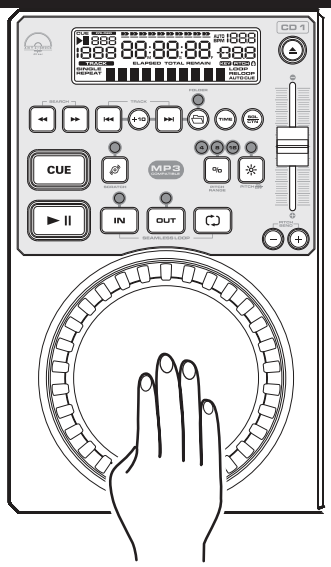


Figure 29

LOCK MODE

In this mode you are able to lock the player functions of the Encore 2000 so that there are no accidental mistakes. The mixer functions will not be locked so that adjustments can be made to the audio levels. To lock the player functions please follow the directions below.

1. To lock the Encore 2000 player press the *RELAY BUTTON (27)* for at least 3 secs. When the Encore 2000 is locked the *RELAY BUTTON (27)* and the *LOCK INDICATOR (53)* will flash.

2. To unlock the Encore 2000 press the *RELAY BUTTON (27)* for at least 3 secs.

NOTE RELAY MODE: Activate RELAY MODE first, then "LOCK" the Encore 2000.

RELAY PLAYBACK

This feature is a kind of "auto pilot". When you are using the Encore 2000 system, you can have one player begin playback when the other ends. You can RELAY single tracks, the entire disc, or a combination of the two. This feature is sometimes referred to as Flip-Flop playback.

To RELAY single tracks:

1) By default the two players are set to playback in single mode, *SINGLE (61)* will be indicated in the *LCD (20).*

2) Set the mixer's crossfader to the center position, and press the *RELAY BUTTON (27)*.

3) Load your two players with audio discs.

4) After they have both cued, press the *PLAY/PAUSE BUTTON (13)* on one player to begin playback.

5) After the first player's single track has ended the second player's track will immediately begin playback.

6) RELAY (FLIP-FLOP™) will continue until you stop it or power is interrupted.

To RELAY entire CDs:

Be sure your players are both in continuous play mode, make sure *SINGLE MODE (61)* does not appear in the *LCDs (20)* of both players. Follow all directions for single track relay above. When one player's disc ends the other player will immediately begin playback.

Note: You may combine relay single and continuously playback modes by selecting either single or continuous playback on your units. In RELAY mode the decks are set single play mode by default.

Make sure that neither deck has REPEAT mode activated during RELAY mode. REPEAT mode has priority over RELAY mode.

MIDI MODE

To use the Encore 2000 MIDI controls make sure that the USB cable is properly connected to your computer. PC user's install the ASIO drivers before initial operation. To enable MIDI press and hold the SOURCE SELECT BUTTON (14) for 3 seconds. Depending on the software you are using the MIDI may have to be mapped.

MIDI TABLE

SW name	Type	MIDI	MIDI2(TAP)	Remarks
JOG	SW/ENC	20/20	5F/5F	
GAIN	VR	21	60	
TREBLE	VR	22	61	
MID	VR	23	62	
BASS	VR	24	63	
CH FADER	VR	25	64	
PITCH FADER	PITCH BEND/VR	PITCH BEND	26	
SEARCH <<	SW	9	48	
SEARCH >>	SW	1	40	
TRACK |<<	SW	11	50	
TRACK >>|	SW	15	54	
+10	SW	5	44	
TIME	SW	12	51	
SGL/CTN	SW	16	55	
OPEN	SW	0E	4D	
PITCH Bend +	SW	10	4F	TAP+PITCH Bend+ to increase Channel
PITCH Bend -	SW	8	47	TAP+PITCH Bend- to decrease Channel
RELOOP	SW	0C	4B	
TAP/BPM	SW	4	--	
FOLDER	SW/LED	0D/0D	4C/--	
CUE	SW/LED	13/13	52/--	
SCRATCH	SW/LED	07/07	46/--	
TEMPO LOCK	SW/LED	06/06	45/--	
PITCH RANGE	SW/LED	02/02	41/--	
PITCH ON/OFF	SW/LED	0A/0A	49/--	
PLAY/PAUSE	SW/LED	17/17	56/--	
IN	SW/LED	0F/0F	4E/--	
OUT	SW/LED	0B/0B	4A/--	
RANGE 4	LED	19	--	
RANGE 16	LED	1A	--	
Level Meter	LEVEL	1B	--	0~10
CROSSFADER A	SW	35	74	Mix CH
CROSSFADER B	SW	36	75	Mix CH
MIC	VR	30	6F	Mix CH
MASTER	VR	31	70	Mix CH

MIDI TABLE

CUE LEVEL	VR	32	71	Mix CH
CUEMIX	VR	33	72	Mix CH
CROSSFADER	VR	34	73	Mix CH
RELAY	SW/LED	14/14	53/--	Mix CH
--	--	--	--	

CC-ABSOLUTE (VR)

Control Change messages are sent with status 0xBn, where n is the channel, for the specified CC controller. Thus the controller MIDI ID is indicated with the channel along with the CC number. The value from 0x00 to 0x7F, directly related to the location of the controller.

CC-RELATIVE (ENC)

Control Change messages are status 0xBn, where n is the channel, for the specified CC controller. Thus the controller MIDI ID is indicated with the channel along with the CC number. The value from 0x40 to indicate the change in the controller. This is an offset to 0x40 “one’s complement” notation.
A message with data 0x43 indicates a **positive** change of 3.
A messages with data 0x31 indicates a **negative** change of 15.

SWITCH ON/OFF (SW,CENTER,CW,CCW)

These messages are used for switches.
Control Change messages are sent with status 0x9n, SWITCH On and Off value are 0x7F and 0x00, where n is the channel.

LED ON/OFF (LED)

These messages are used for LED.
Control Change messages are sent with status 0x9n, LED On and Off value are 0x7F and 0x00, where n is the channel.

PITCH BEND

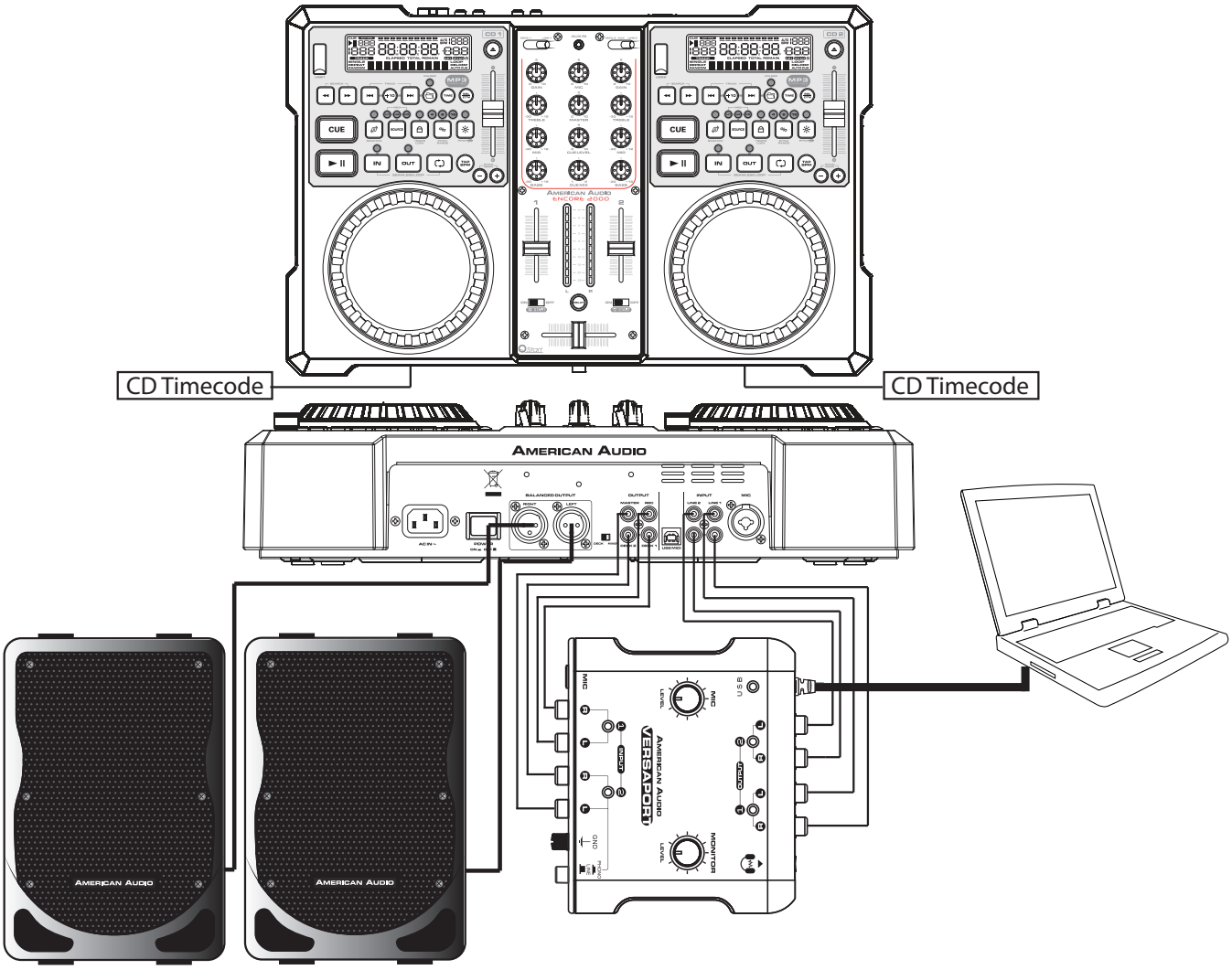
Pitch Bend messages are status 0xEn, where n is the channel, for the specified controller.
Thus the controller ID is indicated only by the channel.
For accurate changes, the 14 bit data in a pitch bend message is reserved for absolute controllers which require more than 7 bits of data.

LEVEL LED (LEVEL)

These messages are used for LEVEL.
Control Change messages are sent with status 0x9n, LED Off value is 0x00 and On value is related to LED amount, 0x01 with one LED, 0x02 with two LED…., where n is the channel.

DVS SET UP

Encore 2000 DVS Set Up: The Encore 2000 can be used with DVS software and an audio interface using the software's time code CD's to control the music loaded onto the software's decks. Load the time code CD's to the CD player tray of the Encore 2000. Set the Encore 2000 *OUTPUT MODE SWITCH (43)* to Deck route mode, then route the *DECK 1* and *DECK 2 OUTPUTS (41 & 42)* to the software's Audio Interface inputs. Route the Audio Interface outputs to the Encore 2000's *LINE 1* and *LINE 2 INPUTS (38 & 39)*, and set the Encore 2000's *SOURCE SELECTOR SWITCH (14)* to Line. Note: Please see DVS software user instructions for sound card configuration and CD time-codes.



ACCESSING MP3 FOLDERS

ACCESS MP3 FOLDERS :

Use this function to access the different folders (files) located on your Mp3 disc.

1) Press the *FOLDER BUTTON (2)* so that the *FOLDER LED* lights up. The artist and song title should appear in the *CHARACTER DISPLAY (58)* and the Folder number will appear in the *FOLDER INDICATOR (48).*

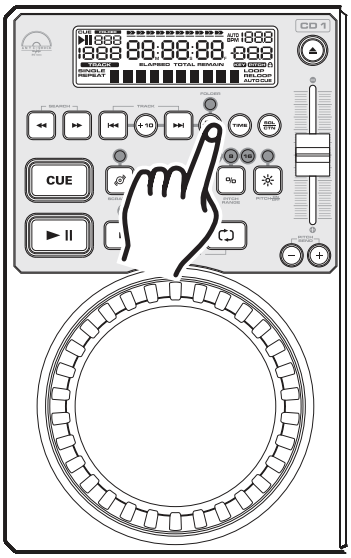


Figure 30

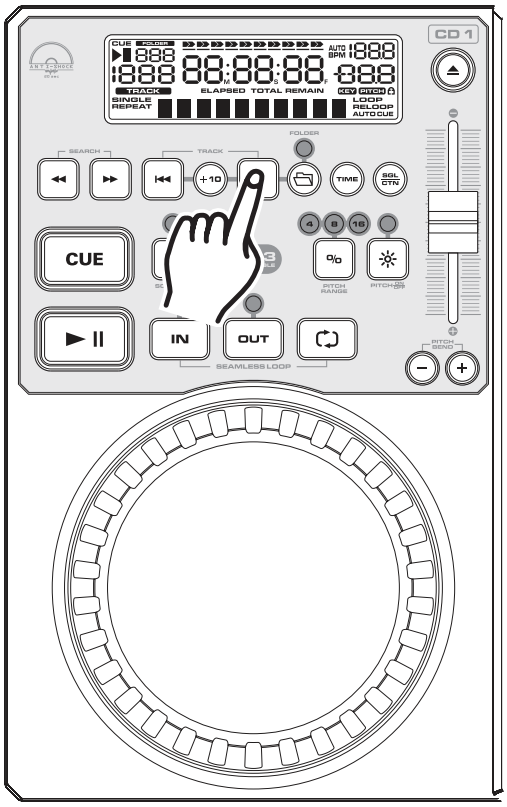
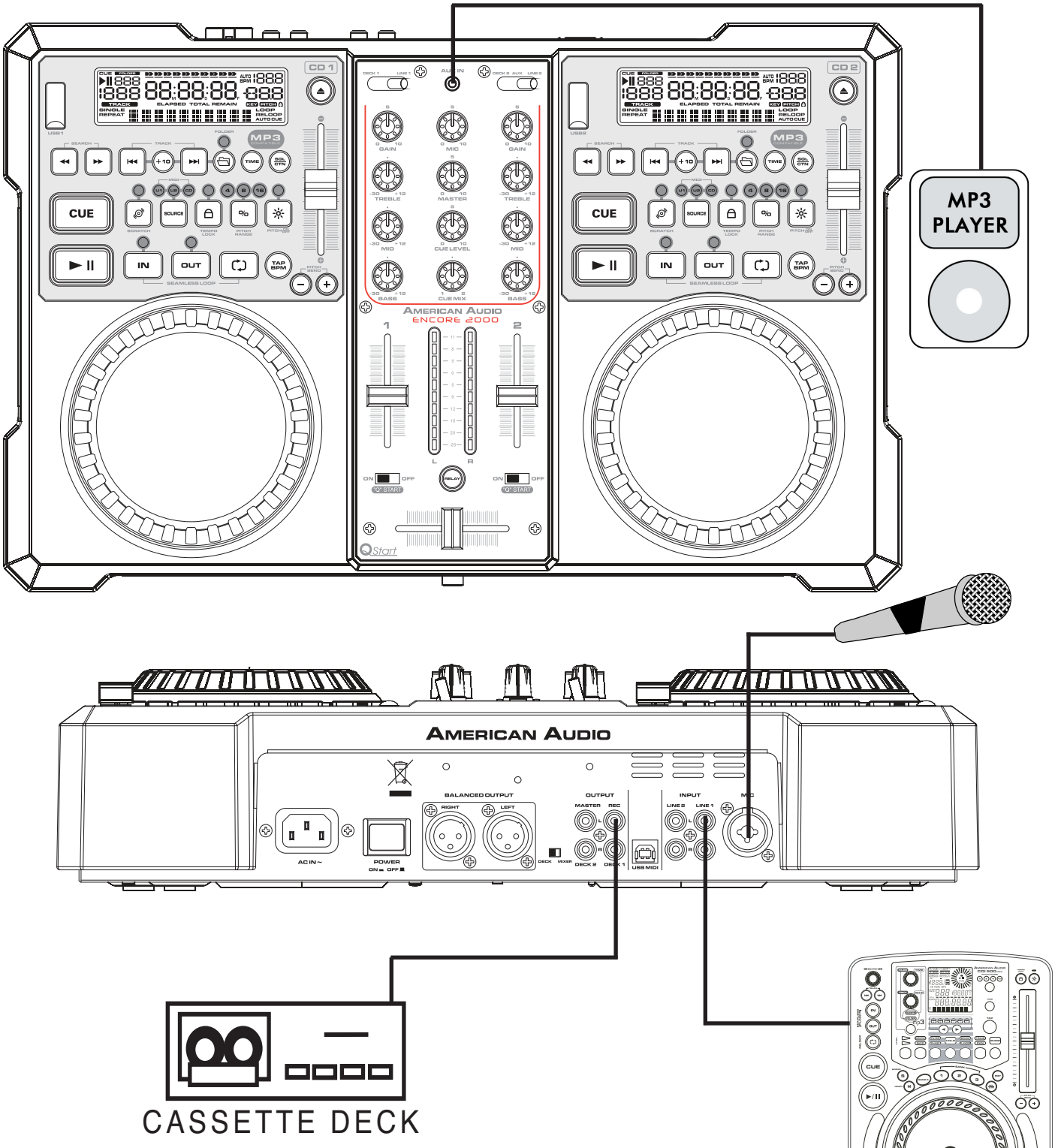


Figure 31

2) Now, press the *TRACK BUTTONS (18)* to scroll forward or backwards through the folders.

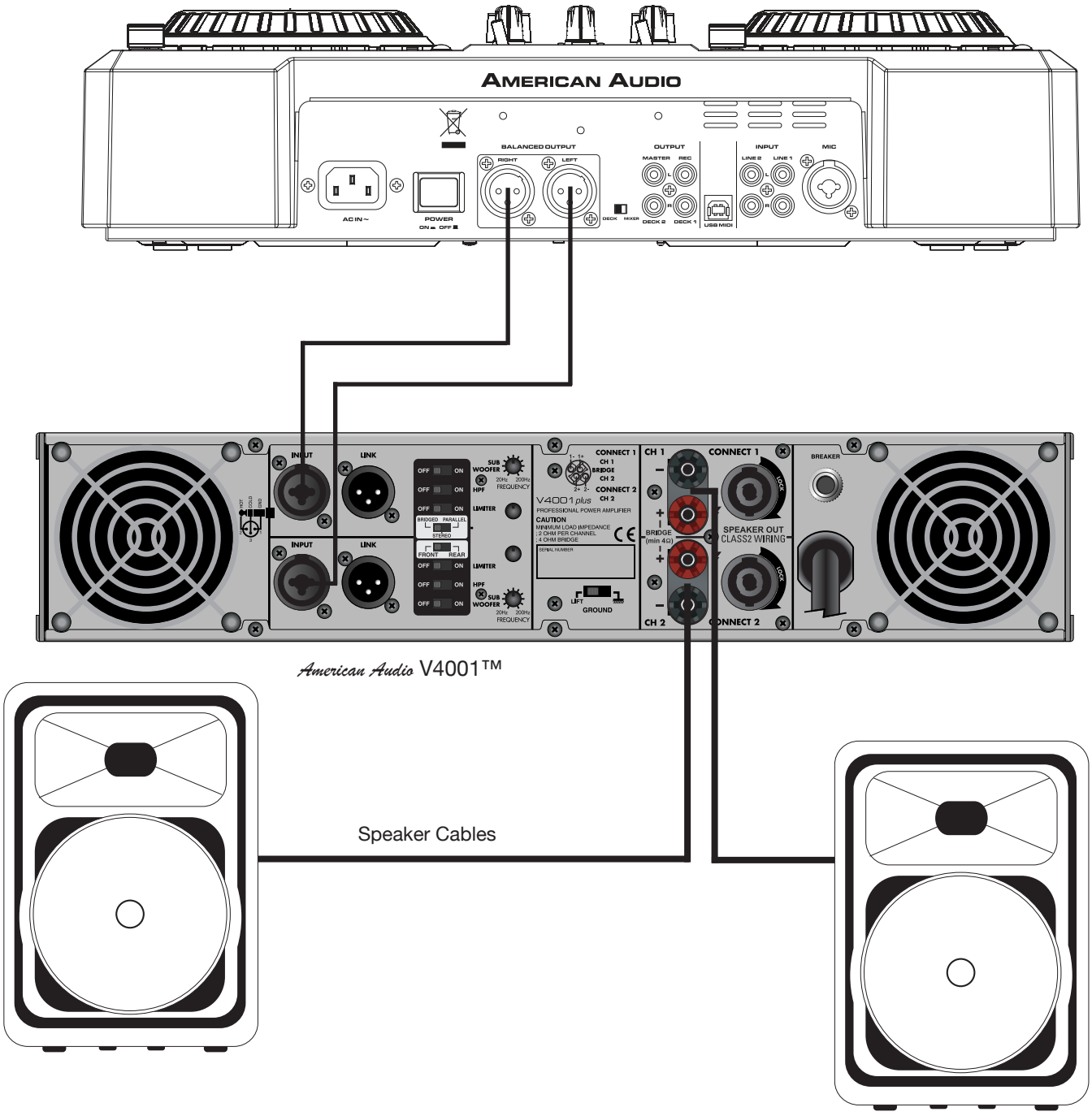
MIXER SET-UP



This image details a typical DJ Set Up consisting of a microphone, Mp3 player, CD players, and a tape deck.

***Note:** Turntables cannot be connected to the ENCORE 2000.*

MIXER SET-UP

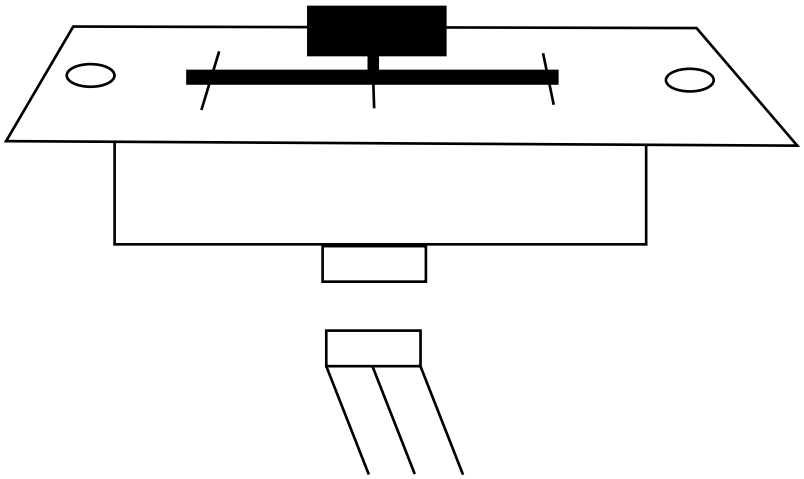


Typical Balanced Output Set-up

This image details a typical stereo output layout. Note the use of the Balanced XLR Jacks on both the mixer and the amplifier. Always use the balanced output jacks whenever possible. The balanced output jacks should always be used for cable runs in excess of 15 feet.

Using the balanced jacks will ensure a clean signal through out the entire audio system.

CROSSFADER REPLACEMENT



The crossfader is “Hot Swapable” which means it may be replaced at any time, even when power is applied. Only replace with American Audio Part Feather Fader Plus. Replacing with any other model fader may seriously damage your mixer. Please, always use insulated tools.

Replacing the Crossfader:

1. Using a Phillips screw driver, unscrew the six stainless steel retainer screws that hold the mixer face plate in place.
2. Gently remove the crossfader knob. Lift and remove the mixer face plate to access the cross fader. Carefully pull the crossfader up from its seated position.
3. After removing the crossfader, disconnect the ribbon cable that attaches the crossfader to the PC board. Grasp the crossfader by its base and pull the ribbon cable by its connector not the actual cables. The connector is designed to only fit one way, so don’t worry about the connectors orientation.
4. Unscrew the ground cable from the crossfader plate. Now unscrew the crossfader from the crossfader plate and replace with the new crossfader. Connect the ground cable to the cross fader plate.
5. Connect the new crossfader to the ribbon cable and replace in reverse order.

WARRANTY

WARRANTY INFORMATION: The ENCORE 2000 carries a ONE year (365 days) limited warranty. This warranty covers parts and labor. Please fill out the enclosed warranty card to validate your purchase and warranty. All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. Please contact American Audio® customer support at (800) 322-6337 for a R.A. number. All package not displaying a R.A. number on the outside of the package will be returned to the shipper.

1-YEAR LIMITED WARRANTY

A. American Audio® hereby warrants, to the original purchaser, American Audio® products to be free of manufacturing defects in material and workmanship for a period of 1 Year (365 days) from the date of purchase. This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.

B. For warranty service, send the product only to American Audio®. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, American Audio® will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, American Audio® shall have no liability whatsoever for loss of or damage to any such accessories, nor for the safe return thereof.

C. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which American Audio® concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the American Audio® factory unless prior written authorization was issued to purchaser by American Audio®; if the product is damaged because not properly maintained as set forth in the instruction manual.

D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check-up. During the period specified above, American Audio® will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of American Audio® under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of American Audio®. All products covered by this warranty were manufactured after January 1, 1990, and bear identifying marks to that effect.

E. American Audio® reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.

F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by American Audio® in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. The consumer's and or Dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall American Audio® be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.

G. This warranty is the only written warranty applicable to American Audio® Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

SPECIFICATIONS

GENERAL	**Model: American Audio Encore 2000 - Professional DUAL CD Player/MP3 Player/2-Channel Mixer/MIDI Controller**	
Type:	Tray loading, digital compact disc/USB audio player.	
Disc type:	Standard size compact discs only (5 in/12 cm and 3in/8cm) Applicable File Extenstions for Mp3s: mp3, MP3, mP3, and Mp3	
Pitch Range:	Within +/- 4%, +/- 8%, +/- 16% (+/-100% for CDDA)	
Pitch Accuracy:	+/-0.15%	
Dimensions:	450mm (L) x 285mm (W) x 110mm (H)	
Installation:	Place on flat surface or mount in flat case	
Weight:	11 Lbs. / 5 Kgs	
Power supply:	AC 100~240V, 50/60Hz (Universal)	
Power consumption:	23W	
Environmental conditions:	Operational temperature:	5 to 35˚C (41 to 95˚F)
	Operational humidity:	25 to 85% RH (no condensation)
	Storage temperature:	-10 to 60˚C (14 to 140˚F)
Accessories:	Instruction Booklet	AC Power Cord

MIXER SECTION

Input/Output Impedance & Sensitivity (Level/Impedence): **(Master set to 0dBV output, Load=100K OHM, maximum gain, EQ Flat, Deck/Mixer SW to Mixer)**

Input Impedance & Reference Level:

LINE:	47K OHM /-12dBV (250mV)
AUX:	47K OHM /-12dBV (250mV)
MIC:	10K OHM /-48dBV (3.98mV)

Output Impedance & Sensitivity:

REC:	1K OHM /-8dBV (398mV) +/-2dB
MASTER:	1K OHM /+2dBV (1.25V) +/-2dB
MASTER XLR:	300 OHM /4dBm (1.23V) +/-2dB (Between Hot & Cold)
PHONES:	4.7 OHM /+2dBV (1.25V) +/-2dB

Maximum Input (1KHz, THD=1% Master Output, EQ Flat, Maximum Gain, w/20KHz LPF, A-Weighted, Deck/Mixer SW To Mixer)

LINE:	More than -2dBV (794mV)
AUX:	More than -2dBV (794mV)
MIC:	More than -37dBV (14mV) Maximum Gain

Maximum Output (1KHz, THD=10% Master Output, EQ Flat, Maximum Gain, w/20KHz LPF, A-Weighted, Deck/Mixer SW To Mixer)

MASTER:	More than +11dBV (3.55V)
REC:	More than +1dBV (1.13V)
PHONES:	More than +3dBV (1.42V, Load=32 OHM)

Frequency Response (Master=0dBV output, Maximum Gain, EQ Flat, Deck/Mixer SW to Mixer)

LINE, AUX, MIC:	20-20KHz 0+/-2dB

THD+N - Total Harmonic Distortion: (EQ Flat, Maximum Gain, w/20kHz LPF, A-Weighted, Deck/Mixer SW To Mixer):

LINE:	Less than 0.04% 20 - 20KHz
MIC/AUX:	Less than 0.05% @ 1KHz

Cross Talk (Maximum Gain, EQ Flat, w/20KHz LPF, A-Weighted, Deck/Mixer SW To Mixer)

LINE/AUX:	More than 61dB @1KHz between L and R More than 100dB @ 1KHz between channels

S/N Ratio: (Maximum Gain, EQ Flat, W/ 20KHz LPF, A-Weighted, Deck/Mixer SW To Mixer)

LINE/AUX:	More than 100dB

SPECIFICATIONS

MIC: More than 100dB

Channel Equalizer: (Deck/Mixer SW To Mixer)

BASS: +12 +/-2dB at 70Hz,
Below -32dB at 70Hz

MID: +12 +/-2dB at 1KHz,
Below -32dB at 1KHz

TREBLE: +12 +/-2dB at 13KHz,
Below -32dB at 13KHz

Fader Maximum Attenuation (Maximum Gain, EQ Flat, w/20KHz LPF, A-Weighted, Deck/Mixer SW To Mixer)

CHANNEL FADER: More than 100dB at 1KHz

CROSSFADER: More than 100dB at 1KHz

CHANNEL BALANCE: Within 3dB

CD PLAYER SECTION

AUDIO CHARACTERISTICS (EQ Flat, Input Gain/Master/Fader Maximum)

Output Level	+8dBV (2.51V) +/-2dB (TCD-782 TRK2, Deck/Mixer SW to Mixer) -2dBV (794mV) +/-2dB (TCD-782 TRK2, Deck/Mixer SW to Mixer)
T.H.D. + NOISE	Less than 0.04% (TCD-782 TRK2; W/ 20KHz LPF, A-Weighted, Deck/Mixer SW to Mixer)
Frequency Response	17 - 20KHz, 0+/-2dB (TCD-782 TRK2,3,7, Deck/Mixer SW to Mixer)
S/N Ratio	More than 81dB (TCD-782 TRK2,8, W/ 20KHz LPF, A-Weighted, Deck/Mixer SW to Mixer)
Channel Separation	More than 75dB @ 1KHz (TCD-782 TRK2,9,11, W/ 20KHz LPF, A-Weighted, Deck/Mixer SW to Mixer)

SEARCHING TIME (TEST DISC: TCD-792)

Short access time	Less than 4sec to next track
Long access time	Less than 6sec from First Track to Last Track

PLAYABILITY

Interruption	More than 800um (TCD-725)
Black dot	More than 600um (TCD-725)
Finger prints	More than 65um (TCD-725)
Eccentricity	More than 140um (TCD-712)
Vertical deviation	More than 500um (TCD-731R)

PICK-UP

System	Object lens drive system optical pick-up
Object lens drive system	2 dimensional parallel drive
Tracking detection	3 spot beam detection
Optical source	Semiconductor laser
Wave length	780nm

USB HOST PLAYER SECTION: (Signal Format: MP3, 128KBPS, EQ FLAT, INPUT GAIN/MASTER/FADER MAXIMUM)

Output Level	+8dBV (2.51V) +/-2dB (TCD-782 TRK2, Deck/Mixer SW to Mixer) -2dBV (794mV) +/-2dB (TCD-782 TRK2, Deck/Mixer SW to Mixer)
Frequency Response	17 - 16KHz, 0+/-2dB (TCD-781 TRK1,4,16, Deck/Mixer SW to Mixer)
T.H.D. + NOISE	Less than 0.04% (TCD-782 TRK2; W/ 20KHz LPF, A-Weighted, Deck/Mixer SW to Mixer)
S/N Ratio	More than 81dB (TCD-782 TRK2,8, W/ 20KHz LPF, A-Weighted, Deck/Mixer SW to Mixer)
LR Separation	More than 75dB @ 1KHz (TCD-782 TRK2,9,11, W/ 20KHz LPF, A-Weighted, Deck/Mixer SW to Mixer)

SPECIFICATIONS

USB SLAVE PLAYER SECTION: (Signal Format: MP3, 128KBPS, EQ Flat, INput Gain/Master/Fader Maximum, Deck/Mixer SW To Mixer, MIDI Set-Up, Mix-Mixer)

Output Level	+14dBV (5.02V) +/-2dB (TCD782 TRK2)
Frequency Response	17 - 16KHz, +/-2dB (TCD781 TRK1,4,16)
T.H.D. + NOISE	Less than 0.04% (TCD781 TRK1, W/20KHz LPF, A-Weighted)
S/N Ratio	More than 100dB (TCD782 TRK2,8, W/ 20KHz LPF, A-Weighted)
LR Separation	More than 75dB @ 1KHz (TCD782 TRK2,9,11, W/ 20KHz LPF, A-Weighted)

RECORDING & PLAYBACK: (Line 1KHz, -12dBV Input, Gain Maximum)

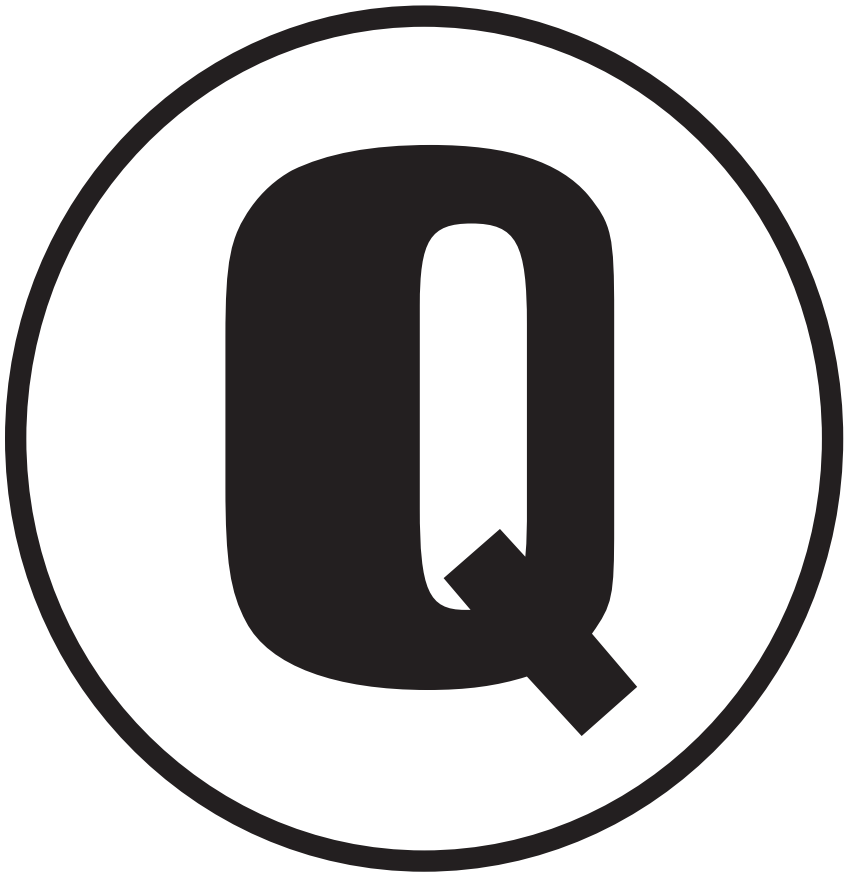
Output	+2dBV (1.25V) +/-2dB
THD+N	Less Than 0.07% (Gain Maximum, w/20KHz LPF, A-Weighted)

MP3 FORMAT

Disc Format	Applicable file extensions	mp3 . MP3 . mP3 . Mp3
	ISO9660	max. 63 characters
	Joliet	max. 63 characters
	CD-ROM sector format	mode-1 only
	Max. number of Folders	255
	Max. number of files	max. 999 files (* note #1)
USB Format	File System	FAT 12/16/32
	Applicable file extensions	mp3. MP3. mP3. Mp3
	Max. number of Folders	999
	Max. number of files	max. 999 files
MP3 Format	MPEG 1 Layer 3 standard (ISO/IEC 11172-3), which provides for single channel (‘mono’) and two-channel (‘stereo’) coding at sampling rates of 32, 44.1 and 48kHz.	32/40/48/56/80/96/112/128/160/192/ 224/256/320 kbps Xing/VBRI VBR
	MPEG 2 Layer 3 standard (ISO/IEC 13818-3), which provides for similar coding at sampling rates of 16, 22.05 and 24 kHz.	32/40/48/56/64/80/96/112/144/160 Kbps Xing/VBRI VBR
	MPEG 2.5 Layer 3 standard, which provides for similar coding at sampling rates of 8, 11.025 and 12 kHz.	32/40/48/56/64/80/96/112/144/160 Kbps Xing/VBRI VBR
Disc Writing Method	Disc at Once and Track at Once	
	Multi Session	If the 1st session is CDDA, you can playback Only CDDA track, If the 1st session is MP3, you can playback only MP3 file.

CE

NOTES: *Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.*



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